

## PROPOSED PROFESSIONAL INFORMATION

### SCHEDULING STATUS

**S3**

#### 1. NAME OF THE MEDICINE:

**VILDAMET 50/ 850 mg**

**VILDAMET 50/ 1000 mg**

#### 2. QUALITATIVE AND QUANTITATIVE COMPOSITION:

**VILDAMET 50 mg/850 mg:** Each tablet contains 50 mg vildagliptin and 850 mg metformin hydrochloride.

**VILDAMET 50 mg/1 000 mg:** Each tablet contains 50 mg vildagliptin and 1 000 mg metformin hydrochloride.

#### **Sugar Free**

For the full list of excipients, see **section 6.1**

#### 3. PHARMACEUTICAL FORM:

Film-coated Tablet

**VILDAMET 50 mg/ 850 mg film-coated tablets:**

Yellow coloured ovaloid shaped tablets plain on both sides.

**VILDAMET 50 mg/ 1000 mg film-coated tablets:** Dark yellow coloured ovaloid shaped tablets plain on both sides

#### 4. CLINICAL PARTICULARS:

##### 4.1 Therapeutic Indications

For patients with Type 2 diabetes mellitus (T2DM):

**VILDAMET** is indicated as an adjunct to diet and exercise in patients who are already stabilised with the combination of vildagliptin and metformin hydrochloride at the same dosages, as separate tablets.

**VILDAMET** is indicated as add-on to insulin as an adjunct to diet and exercise in patients on a stable dose of insulin plus vildagliptin and metformin hydrochloride.

**VILDAMET** is indicated as an add-on to insulin at the same dosages as the separate tablets of vildagliptin and metformin hydrochloride.

**VILDAMET** is indicated in combination with sulphonylurea (SU) (i.e. triple combination therapy) as an adjunct to diet and exercise in patients stabilised on vildagliptin, metformin hydrochloride and a sulphonylurea.

**VILDAMET** can be used to replace the vildagliptin and metformin hydrochloride at the same dosages as the separate tablets.

## 4.2 Posology and method of administration

### Posology

In using **VILDAMET** do not exceed the maximum daily dose of vildagliptin (100 mg).

The recommended starting dose of **VILDAMET** should be based on the patient's current regimen of vildagliptin and/or metformin hydrochloride.

*Use in combination with sulphonylurea or with insulin:*

The dose of **VILDAMET** 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.

### **Special Populations:**

#### *Patients with renal impairment:*

A GFR should be assessed before initiation of treatment with metformin-containing products (such as **VILDAMET**) 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 to 6 months. The maximum daily dose of metformin should preferably be divided into 2 to 3 daily doses. Factors that may increase the risk of lactic acidosis (see section 4.4) should be reviewed before considering initiation of metformin-containing products (such as **VILDAMET**) in patients with GFR < 60 ml/min. **VILDAMET** is contraindicated in patients with GFR < 30 ml/min because of its metformin component (see section 4.3).

The following dosing recommendations apply to metformin and vildagliptin, used separately or in combination, in patients with renal impairment. If no adequate strength of **VILDAMET** is available, individual components should be used instead of the fixed dose combination.

### **Dose adjustments in patients with renal impairment**

<b>GFR ml/min</b>	<b>Metformin</b>	<b>Vildagliptin</b>
60 - 89	Maximum daily dose is 3000 mg*. Dose reduction may be considered if renal function declines.	Maximal daily dose is 100 mg.
45 - 59	Starting dose should not be more than 1000 mg with a maximum daily dose of 2000 mg*.	Maximal daily dose is 50 mg.
30 - 44	Starting dose should not be more than 500 mg with a maximum daily dose of 1000 mg.	
< 30	Metformin is contraindicated.	

\*If metformin doses higher than those achievable with **VILDAMET** alone are considered necessary.

*Patients with hepatic impairment:*

**VILDAMET** is not recommended in patients with clinical or laboratory evidence of hepatic impairment including patients with a pre-treatment ALT or AST > 2, 5 x the ULN (see section 4.4).

*Elderly:*

As metformin is excreted via the kidneys, and elderly patients tend to exhibit decreased renal function, elderly patients taking metformin-containing products (such as **VILDAMET**) should have their renal function monitored regularly. The dosage of **VILDAMET** for elderly patients should be adjusted based on renal function (see section 4.3 "Renal disease" and section 4.4 "Monitoring of renal function").

*Paediatric patients:*

Safety and efficacy of **VILDAMET** in paediatric patients have not been established. Therefore, **VILDAMET** is not recommended for use in children below 18 years of age.

**Method of administration**

Oral administration

**VILDAMET** should be given with meals to reduce the gastrointestinal side effects associated with metformin hydrochloride.

**4.3 Contraindications**

***Hypersensitivity:***

**VILDAMET** is contraindicated in patients with known hypersensitivity to vildagliptin or metformin hydrochloride or to any of the excipients of **VILDAMET** listed in section 6.1.

***Renal disease:***

**VILDAMET** is contraindicated in patients with:

- severe renal impairment (GFR < 30 ml/min) (see section 4.2 and 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).

***Patients with hepatic impairment:***

**VILDAMET** is contraindicated in patients with hepatic impairment, including patients with a pretreatment ALT or AST > 2,5 x the upper limit of normal (see section 4.4).

***Congestive heart failure:***

**VILDAMET** is contraindicated in patients with congestive heart failure requiring pharmacological treatment (see section 4.4).

***Metabolic acidosis:***

**VILDAMET** is contraindicated in patients with acute or chronic metabolic acidosis, including lactic acidosis or diabetic ketoacidosis, with or without coma. Diabetic ketoacidosis should be treated with insulin.

**VILDAMET** is contraindicated in acute alcohol intoxication, alcoholism as well as in Acute or chronic disease that may cause tissue hypoxia, such as:

- cardiac or respiratory failure,
- recent myocardial infarction,
- shock

#### **4.4 Special warnings and precautions for use**

**VILDAMET** is not a substitute for insulin in patients requiring insulin. **VILDAMET** should not be used in patients with type 1 diabetes or for the treatment of diabetic ketoacidosis.

If metabolic acidosis is suspected, treatment with **VILDAMET** should be discontinued and the patient hospitalised immediately (see section 4.9).

**VILDAMET** should be discontinued if evidence of renal impairment is present.

### **Alcohol intake**

Alcohol is known to potentiate the effect of metformin hydrochloride on lactate metabolism. Patients should be warned against excessive alcohol intake while receiving metformin containing products (such as **VILDAMET**).

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

### **Administration of intravascular iodinated contrast materials**

**VILDAMET** should be temporarily discontinued in patients undergoing radiologic studies involving intravascular administration of iodinated contrast materials, because use of such products may result in acute alteration of renal function and increase the risk of lactic acidosis. In patients undergoing such studies, **VILDAMET** should be temporarily discontinued at the time of or prior to the procedure, withheld for 48 hours subsequent to the procedure and reinstated only after renal function has been re-evaluated and found to be normal.

### **Hepatic impairment**

Vildagliptin is not recommended in patients with hepatic impairment, including patients with pretreatment ALT or AST 3 x the ULN (see section 4.3).

### **Liver enzyme monitoring**

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 **VILDAMET**. LFTs should be monitored during **VILDAMET** treatment 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 liver function tests until the abnormality(ies) return to normal. Should an increase in AST or ALT of 3 x ULN or greater persist, withdrawal of therapy with **VILDAMET** is recommended. Patients who develop jaundice or other signs suggestive of liver dysfunction should discontinue **VILDAMET** and contact their medical practitioner immediately. Following withdrawal of treatment with **VILDAMET** and LFT normalisation, **VILDAMET** should not be reinitiated.

### **Acute Pancreatitis**

Use of vildagliptin has been associated with a risk of developing 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 a history of acute pancreatitis.

## **Heart Failure**

A clinical study of vildagliptin in patients with New York Heart Association (NYHA) functional class I-III showed that treatment with vildagliptin was not associated with a change in left-ventricular function or worsening of pre-existing congestive heart failure (CHF) versus placebo. Clinical experience in patients with NYHA functional class III treated with vildagliptin is still limited and results are inconclusive.

There is no experience of vildagliptin use in clinical studies in patients with NYHA functional class IV and therefore use is not recommended in these patients.

Vildagliptin as contained in **VILDAMET** may cause arthralgia that can be severe.

### **Severe cutaneous adverse reactions**

Severe cutaneous adverse reactions (SCARs) such as toxic epidermal necrolysis (TEN), Steven Johnson syndrome, erythema multiforme, acute generalised exanthematous pustulosis, erythroderma (generalised exfoliative dermatitis) and pemphigoid have been reported in patients treated with DPP-4 inhibitors including **VILDAMET**. SCARs are regarded as a class effect of DPP-4 inhibitors such as **VILDAMET**. If a patient develops SCAR, treatment with DPP-4 inhibitors such as **VILDAMET** must immediately be discontinued and appropriate treatment instituted. Patients should continue with an alternative class of anti-diabetic medicines.

## **Rhabdomyolysis**

Rhabdomyolysis has been reported during use of DPP-4 inhibitor containing products such as **VILDAMET**. However, causality could not be assessed due to confounding factors such as concomitant use of medicines (statins, colchicine, etc.) or co-morbid conditions (Renal failure, hypovolemia, etc.), known to cause or predispose to development of rhabdomyolysis. Close monitoring of patients using DPP-4 inhibitor containing medicines in presence of predisposing risk factors is recommended.

## ***Metformin hydrochloride***

### ***Lactic Acidosis***

Lactic acidosis is a serious metabolic complication that most often occurs with acute worsening of renal function, or cardiorespiratory illness or sepsis. Metformin accumulation occurs with acute worsening of renal function and increases the risk of lactic acidosis.

In case of dehydration (e.g. due to severe diarrhoea or vomiting, fever or reduced fluid intake), the patient should stop taking metformin-containing products (such as **VILDAMET**) and seek immediate medical attention.

Medicinal products that can acutely impair renal function (such as antihypertensives, diuretics and NSAIDs) should be initiated with caution in patients treated with metformin-containing products (such as **VILDAMET**). Other risk factors for lactic

acidosis are excessive alcohol intake, hepatic impairment, 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 section 4.3 and 4.5).

### **Diagnosis of lactic acidosis**

Patients and/or caregivers 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. 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. If metabolic acidosis is suspected, treatment with metformin-containing products (such as **VILDAMET**) should be discontinued and the patient should be immediately hospitalised.

### **Monitoring of renal function**

GFR should be assessed before treatment initiation and regularly thereafter (see section 4.2). Metformin-containing products (such as **VILDAMET**) are 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).

Metformin hydrochloride is substantially excreted by the kidneys, and the risk of metformin hydrochloride accumulation and lactic acidosis increases with the degree of renal function impairment. Since advancing age is associated with reduced renal function, metformin-containing products (such as **VILDAMET**) should be carefully

titrated in the elderly to establish the minimum dose for adequate glycaemic effect, and renal function should be monitored regularly (see section 4.2).

### **Concomitant medications that may affect renal function or metformin hydrochloride disposition**

Concomitant medications that may affect renal function, result in significant haemodynamic change or interfere with the disposition of metformin hydrochloride, such as cationic medicines that are eliminated by renal tubular secretion should be used with caution (see section 4.5).

### **Hypoxic states**

Cardiovascular collapse (shock), acute congestive heart failure, acute myocardial infarction and other conditions characterized by hypoxaemia have been associated with lactic acidosis and may also cause prerenal uraemia. If such events occur in patients receiving **VILDAMET** therapy, the medication should be promptly discontinued.

### **Surgical procedures**

Use of **VILDAMET** should be temporarily suspended for any surgical procedure (except minor procedures not associated with restricted intake of food and fluids) and should not be restarted until the patient's oral intake has resumed and renal function has been evaluated as normal.

### **Impaired hepatic function**

Since impaired hepatic function has been associated with some cases of lactic acidosis, a risk associated with metformin hydrochloride, metformin-containing products (such as **VILDAMET**) should generally be avoided in patients with clinical or laboratory evidence of hepatic disease.

### **Vitamin B12 levels**

The metformin component of **VILDAMET** has been associated with a decrease in serum vitamin B12 levels without clinical manifestations, in approximately 7 % of patients. Such decrease, is associated with anaemia and appears to be rapidly reversible with discontinuation of metformin hydrochloride and/or vitamin B12 supplementation. Measurement of haematological parameters on at least an annual basis is advised for patients receiving metformin-containing products (such as **VILDAMET**) and any apparent abnormalities should be appropriately investigated and managed. Certain individuals (e.g. those with inadequate vitamin B12 or calcium intake or absorption) appear to be predisposed to developing subnormal vitamin B12 levels. In these patients, routine serum vitamin B12 measurements at minimally two-to-three-year intervals may be useful.

### **Change in clinical status of patients with previously controlled type 2 diabetes**

A patient with type 2 diabetes previously well-controlled on **VILDAMET** who develops laboratory abnormalities or clinical illness (especially vague and poorly defined illness) should promptly be evaluated for ketoacidosis and/or lactic acidosis. If acidosis of either form occurs, **VILDAMET** must be stopped immediately and appropriate measures initiated.

## **Hypoglycaemia**

Hypoglycaemia does not usually occur in patients receiving **VILDAMET** alone, but could occur when caloric intake is deficient, when strenuous exercise is not compensated by caloric supplementation, or ethanol use. Elderly, debilitated or malnourished patients and those with adrenal or pituitary insufficiency or alcohol intoxication are susceptible to hypoglycaemic effects. Hypoglycaemia may be difficult to recognize in the elderly and in people taking beta-adrenergic blocking medicines.

Hypoglycaemia may occur when **VILDAMET** is used as add-on therapy to other anti-diabetic medicines.

## **Loss of control of blood glucose**

When a patient stabilised on any diabetic regimen is exposed to stress such as fever, trauma, infection, surgery, etc., a temporary loss of glycaemic control may occur. At such times, it may be necessary to withhold **VILDAMET** and temporarily administer insulin. **VILDAMET** may be reinstated after the acute episode is resolved.

## **4.5 Interaction with other medicines and other forms of interaction**

### **VILDAMET**

No clinically relevant pharmacokinetic interaction was observed when vildagliptin (100 mg once daily) was co-administered with metformin hydrochloride (1 000 mg once daily). Medicine interactions for each component of **VILDAMET** have been

extensively studied. However, the concomitant use of the active substances in patients in clinical studies and in widespread clinical use has not resulted in any unexpected interactions.

The following statements reflect the information available on the individual active substances (vildagliptin and metformin).

### ***Vildagliptin***

Vildagliptin, as contained in **VILDAMET**, has a low potential for medicine interactions. Since vildagliptin is not a cytochrome P (CYP) 450 enzyme substrate nor does it inhibit nor induces CYP 450 enzymes, it is not likely to interact with co-medications that are substrates, inhibitors or inducers of these enzymes.

Furthermore, vildagliptin does not affect metabolic clearance of co-medications metabolised by CYP 1A2, CYP 2C8, CYP 2C9, CYP 2C19, CYP 2D6, CYP 2E1, and CYP 3A4/5. Medicine-medicine interaction studies were conducted with commonly co-prescribed medications for patients with type 2 diabetes or medications with a narrow therapeutic window. As a result of these studies no clinically relevant interactions with other oral antidiabetics (glibenclamide, pioglitazone, and metformin hydrochloride), amlodipine, digoxin, ramipril, simvastatin, valsartan or warfarin were observed after co- administration with vildagliptin.

### ***Combination with ACE inhibitors***

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

The hypoglycaemic effect of vildagliptin may be reduced by certain active substances, including thiazides, corticosteroids, thyroid products and sympathomimetics

### ***Metformin hydrochloride***

The following is known about metformin:

*Furosemide* - Furosemide increased C<sub>max</sub> and blood AUC of metformin with no change in renal clearance of metformin. Metformin decreased C<sub>max</sub> blood AUC of furosemide, with no change in renal clearance of furosemide.

*Nifedipine* - Nifedipine increased absorption, C<sub>max</sub> and AUC of metformin, and increased excretion of metformin in urine. Metformin had minimal effects on nifedipine.

*Glyburide*- Glyburide produced no changes in metformin PK/PD parameters. Decreases in C<sub>max</sub> blood AUC of glyburide were observed, but were highly variable. Therefore, the clinical significance of this finding was unclear.

*Cationic medicines*- Cationic medicines (e.g. amiloride, digoxin, morphine, procainamide, quinidine, quinine, ranitidine, triamterene, trimethoprim, or vancomycin) that are eliminated by renal tubular secretion theoretically have the potential for interaction with metformin by competing for common renal tubular transport systems. Thus, with cimetidine increases in metformin plasma/blood concentration and AUC were observed to be 60 % and 40 % respectively. Metformin had no effect on cimetidine PK. Although such interactions remain theoretical (except for cimetidine), careful monitoring of patients and doses of metformin-containing medicines (such as **VILDAMET**) and such medications are recommended.

*Other* - Some medicines 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 medicines in combination with metformin-containing products (such as **VILDAMET**), close monitoring of renal function is necessary. Certain medicines tend to cause hyperglycaemia and may lead to loss of glycaemic control. These medicines include the thiazides and other diuretics, corticosteroids, phenothiazines, thyroid products, oestrogens, oral contraceptives, phenytoin, nicotinic acid, sympathomimetics, calcium channel blocking medicines, and isoniazid. Close monitoring of glycaemic control and metformin dose adjustments are recommended when such medicines are administered or withdrawn for these patients.

There is an increased risk of lactic acidosis in acute alcohol intoxication (particularly in the case of fasting, malnutrition or hepatic impairment) due to metformin. Avoid consumption of alcohol and medicinal products containing alcohol (see section 4.4).

#### ***4.6 Fertility, pregnancy, and lactation***

##### ***Pregnancy***

Safety in pregnancy has not been established. **VILDAMET** should not be used during pregnancy.

##### ***Lactation***

Safety in lactation has not been established. **VILDAMET** should not be administered to breastfeeding women.

### ***Fertility***

No studies on the effect on human fertility has been conducted or established.

### **4.7 Effect on ability to drive and use machines**

**VILDAMET** may cause dizziness. Patients who experience dizziness should avoid driving vehicles or using machines.

### **4.8 Undesirable effects**

#### **Summary of the safety profile**

Safety data were obtained from patients exposed to vildagliptin/metformin in randomised placebo-controlled trials.

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. 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

<u>System Organ Class</u>	<u>Frequency</u>	<u>Side effects</u>
<b>Infections &amp; Infestations</b>	<i>Frequent</i>	Upper respiratory infection, nasopharyngitis
<b>Metabolism and nutritional disorders</b>	<i>Less Frequent</i>	Hypoglycaemia, loss of appetite, decrease of vitamin B <sub>12</sub> absorption and lactic acidosis*
<b>Nervous system disorders</b>	<i>Frequent</i>	Dizziness, headache, tremor
	<i>Less Frequent</i>	Metallic taste
<b>Gastrointestinal disorders</b>	<i>Frequent</i>	Vomiting, Diarrhoea, nausea, gastro-oesophageal reflux disease, flatulence, constipation, abdominal pain including upper
	<i>Less Frequent</i>	Pancreatitis

<b>Hepatobiliary disorders</b>	<i>Less Frequent</i>	Hepatitis
<b>Skin and subcutaneous tissue disorders</b>	<i>Frequent</i>	Hyperhidrosis, pruritis, rash, dermatitis,
	<i>Less Frequent</i>	Erythema and urticaria
	<i>Frequency not known</i>	Exfoliative and bullous skin lesions, including bullous pemphigoid <sup>\$</sup>
<b>Musculoskeletal and connective tissue disorders</b>	<i>Frequent</i>	Arthralgia
	<i>Less Frequent</i>	Myalgia
<b>General disorders and administration site conditions</b>	<i>Frequent</i>	Asthenia
	<i>Less Frequent</i>	Fatigue, chills, oedema peripheral
<b>Investigations</b>	<i>Less Frequent</i>	Abnormal liver function tests

\*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 professional information for metformin for additional information.

§Based on post-marketing experience.

## **Description of selected adverse reactions**

### ***Vildagliptin***

#### ***Hepatic impairment***

Cases of hepatic dysfunction (including hepatitis) have been reported with vildagliptin. In data from controlled monotherapy and add-on therapy trials of up to 24 weeks in duration, the incidence of ALT or AST elevations  $\geq 3x$  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***

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 less frequent 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.

### ***Rhabdomyolysis***

Severe cutaneous adverse reactions (SCARs) such as toxic epidermal necrolysis (TEN), Steven-Johnson syndrome, erythema multiforme, acute generalised exanthematous pustulosis, erythroderma (generalised exfoliative dermatitis) and pemphigoid have been reported in patients treated with DPP - 4 inhibitors including **VILDAMET**.

### ***Metformin hydrochloride:***

#### ***Decrease of vitamin B12 absorption***

A decrease in vitamin B12 absorption with decrease in serum levels has been observed 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.

Severe cutaneous adverse reactions (SCARs) such as toxic epidermal necrolysis (TEN), Steven-Johnson syndrome, erythema multiforme, acute generalised

exanthematous pustulosis, erythroderma (generalised exfoliative dermatitis) and pemphigoid have been reported in patients treated with DPP- 4 inhibitors including **VILDAMET**.

### **Reporting of suspected adverse reactions**

Reporting suspected adverse reactions after authorisation of the medicine is important. It allows continued monitoring of the benefit/risk balance of the medicine. Healthcare providers are asked to report any suspected adverse reactions to SAHPRA via the “**6.04 Adverse Drug Reactions Reporting Form**”, found online under SAHPRA’s publications: <https://www.sahpra.org.za/Publications/Index/8>

## **4.9 Overdose**

Signs and symptoms

Vildagliptin

Reports include muscle pain, paraesthesia, fever and oedema. Increases in lipase levels (2 x ULN), creatine phosphokinase (CPK) levels, aspartate aminotransferase (AST), C-reactive protein, and myoglobin may occur. Vildagliptin is not dialysable, however the major hydrolysis metabolite (LAY151) can be removed by haemodialysis.

Metformin Hydrochloride

Hypoglycaemia may develop and should be monitored for. Lactic acidosis has been reported in metformin hydrochloride overdose cases. Metformin hydrochloride is dialysable with a clearance of up to 170 mL/min under good haemodynamic conditions. Therefore, haemodialysis may be useful for removal of accumulated medicine from patients in whom metformin hydrochloride overdosage is suspected.

In the event of overdosage, appropriate supportive treatment should be initiated according to the patient's clinical signs and symptoms.

## **5 Pharmacological properties**

Pharmacological Classification: A 21.2. Oral hypoglycaemics

### **5.1 Pharmacodynamic properties**

Pharmacotherapeutic group: Drugs used in diabetes, combinations of oral blood glucose lowering drugs, ATC code:A10BD08

## ***VILDAMET***

**VILDAMET** combines two antihyperglycaemic medicines with different mechanisms of action to improve glycaemic control in patients with type 2 diabetes: vildagliptin, a member of the DPP-4 (dipeptidyl-peptidase-4) inhibitor class and metformin hydrochloride, a member of the biguanide class.

### ***Vildagliptin***

Vildagliptin, a member of the islet enhancer class, is a potent and selective dipeptidyl-peptidase-4 (DPP-4) inhibitor that improves glycaemic control.

The administration of vildagliptin results in inhibition of DPP-4 activity. In patients with type 2 diabetes, administration of vildagliptin led to inhibition of DPP-4 enzyme activity for a 24-hour period. Vildagliptin inhibition of DPP-4 results in increased fasting and postprandial endogenous levels of the incretin hormones GLP-1 (glucagon-like peptide 1) and GIP (glucose-dependent insulinotropic polypeptide.)

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 50 to 100 mg daily in patients with type 2 diabetes significantly improved markers of beta-cell function. The degree of improvement in beta-cell function is dependent on the initial degree of impairment; in non-diabetic (normal glycaemic) individuals, vildagliptin does not stimulate insulin secretion or reduce glucose levels.

By increasing endogenous GLP-1 levels, vildagliptin enhances the sensitivity of alpha cells to glucose, resulting in more glucose appropriate glucagon secretion. The reduction in inappropriate glucagon during meals in turn attenuates insulin resistance.

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 to delay gastric emptying is not observed with vildagliptin treatment. In addition, a reduction in postprandial lipaemia that is not associated with vildagliptin's incretin mediated effect to improve islet function, has been observed.

### **Metformin hydrochloride**

Metformin hydrochloride improves glucose tolerance in patients with type 2 diabetes, lowering both basal and postprandial plasma glucose. Metformin hydrochloride decreases hepatic glucose production, decreases intestinal absorption of glucose

and improves insulin sensitivity by increasing peripheral glucose uptake and utilisation. With metformin hydrochloride therapy, insulin secretion remains unchanged while fasting insulin levels and day-long plasma insulin response may actually decrease.

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

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

## **5.2 Pharmacokinetic properties**

### ***Absorption***

In the bioequivalence studies of vildagliptin/metformin HCL at two dose strengths (50 mg/850 mg and 50 mg/1 000 mg), versus free combination of vildagliptin and metformin hydrochloride tablets at the corresponding doses, the area under the curve (AUC) and maximum concentration (C<sub>max</sub>) of both the vildagliptin component and the metformin hydrochloride component of the vildagliptin/metformin HCL tablets were demonstrated to be bioequivalent to that of free combination tablets.

Food does not affect the extent and rate of absorption of vildagliptin from vildagliptin/metformin HCL tablets. The C<sub>max</sub> and AUC of the metformin hydrochloride component from vildagliptin/metformin HCL were decreased by 26 % and 7 % respectively when given with food. The absorption of metformin hydrochloride was also delayed as reflected by the T<sub>max</sub> (2, 0 to 4, 0 hours) when given with food. These changes in C<sub>max</sub> and AUC are consistent but lower than those observed when metformin hydrochloride was given alone under fed conditions. The effects of food on the pharmacokinetics of both the vildagliptin component and metformin hydrochloride component of vildagliptin/metformin HCL tablets were similar to the pharmacokinetics of vildagliptin and metformin hydrochloride when given alone with food.

#### *Vildagliptin*

Following oral administration in the fasting state, vildagliptin is well absorbed with peak plasma concentrations observed at 1,75 hours. Co-administration with food slightly decreases the rate of absorption of vildagliptin, as characterised by a 19 % decrease in peak concentrations, and a delay in the time to peak plasma concentration to 2,5 hours. There is no change in the extent of absorption, and food does not alter the overall exposure (AUC).

#### *Metformin hydrochloride*

The absolute bioavailability of a 500 mg metformin hydrochloride tablet given under fasting conditions is approximately 50 to 60 %. Studies using single oral doses of metformin hydrochloride tablets 500 mg to 1 500 mg, and 850 mg to 2 550 mg, indicate that there is a lack of dose proportionality with increasing doses, which is due to decreased absorption rather than an alteration in elimination. Food decreases

the extent of and slightly delays the absorption of metformin hydrochloride, as shown by approximately a 40 % lower mean peak plasma concentration (C<sub>max</sub>), a 25 % lower area under the plasma concentration versus time curve (AUC), and a 35 minute prolongation of time to peak plasma concentration (T<sub>max</sub>) following administration of a single 850 mg tablet of metformin hydrochloride with food, compared to the same tablet strength administered under fasting conditions. The clinical relevance of these decreases is unknown.

### ***Linearity***

Vildagliptin is well absorbed with an absolute oral bioavailability of 85 %. Peak plasma concentrations for vildagliptin and the area under the plasma concentration versus time curve (AUC) increased in an approximately dose-proportional manner over the therapeutic dose range.

### ***Distribution***

#### ***Vildagliptin***

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<sub>ss</sub>) is 71 L, suggesting extravascular distribution.

#### ***Metformin hydrochloride***

The apparent volume of distribution (V/F) of metformin hydrochloride following single oral doses of 850 mg averaged 654 ± 358 L. Metformin hydrochloride is negligibly bound to plasma proteins, in contrast to sulfonylureas, which are more than 90 %

protein bound. Metformin hydrochloride partitions into erythrocytes, most likely as a function of time. At usual clinical doses and dosing schedules of metformin hydrochloride, steady state plasma concentrations of metformin hydrochloride are reached within 24 to 48 hours and are generally < 1 µg/mL. During controlled clinical studies of metformin hydrochloride, maximum metformin hydrochloride plasma levels did not exceed 5 µg/mL, even at maximum doses.

## **Metabolism**

### *Vildagliptin*

Metabolism is the major elimination pathway for vildagliptin in humans, accounting for 69 % of the dose. The major metabolite, LAY151, 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 the dose). DPP-4 contributes partially to the hydrolysis of vildagliptin as shown in an *in-vivo* study using DPP-4 deficient rats. Vildagliptin is not metabolised by cytochrome P450 enzymes to any quantifiable extent. *In-vitro* studies demonstrated that vildagliptin does not inhibit or induce cytochrome P450 enzymes.

### *Metformin Hydrochloride*

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

## **Excretion and elimination**

### *Vildagliptin*

Following oral administration of [14C]-vildagliptin, approximately 85 % of the dose is excreted into the urine and 15 % of the dose is recovered in the faeces. Renal

excretion of the unchanged vildagliptin accounts for 23 % of the dose after oral administration. After an intravenous administration to healthy subjects, the total plasma and renal clearances of vildagliptin are 41 litres/hour and 13 litres/hour, respectively. The mean elimination half-life after intravenous administration is approximately 2 hours. The elimination half-life after oral administration is approximately 3 hours and is independent of dose.

### *Metformin hydrochloride*

Intravenous single-dose studies in normal subjects demonstrate that metformin hydrochloride is excreted unchanged in the urine and does not undergo hepatic metabolism (no metabolites have been identified in humans) nor biliary excretion. Renal clearance is approximately 3,5 times greater than creatinine clearance, which indicates that tubular secretion is the major route of elimination. Following oral administration, approximately 90 % of the absorbed medicine is eliminated via the renal route within the first 24 hours, with a plasma elimination half-life of approximately 6,2 hours. In blood, the elimination half-life is approximately 17,6 hours, suggesting that the erythrocyte mass may be a compartment of distribution.

### ***Special populations***

#### ***Obesity***

##### *Vildagliptin*

BMI does not show any impact on the pharmacokinetic parameters of vildagliptin. DPP-4 inhibition by vildagliptin was unaffected by BMI.

#### ***Hepatic impairment***

### *Vildagliptin*

The effect of impaired hepatic function on the pharmacokinetics of vildagliptin was studied in subjects with mild, moderate, and severe hepatic impairment based on the Child-Pugh scores (ranging from 6 for mild to 12 for severe) in comparison to subjects with normal hepatic function. The exposure to vildagliptin (100 mg) after a single dose in subjects with mild and moderate hepatic impairment was decreased (20 % and 8 %, respectively), while the exposure to vildagliptin for subjects with severe impairment was increased by 22 %. The maximum change (increase or decrease) in the exposure to vildagliptin is ~30 %, which is not considered to be clinically relevant. There was no correlation between the severity of hepatic function impairment and changes in exposure to vildagliptin.

The use of vildagliptin is not recommended in patients with hepatic impairment including patients with a pre-treatment ALT or AST > 2,5 x the ULN (upper limit of normal).

### *Metformin Hydrochloride*

No pharmacokinetic studies of metformin hydrochloride have been conducted in subjects with hepatic impairment.

## **Renal impairment**

### *Vildagliptin*

Vildagliptin AUC increased on average 1.4, 1.7 and 2 -fold in patients with mild, moderate and severe renal impairment, respectively, compared to normal healthy subjects. AUC of the metabolites LAY151 increased 1.6, 3.2 and 7.3 -fold and that of

BQS867 increased 1.4, 2.7 and 7.3 -fold in patients with mild, moderate and severe renal impairment, respectively, compared to healthy volunteers. Limited data from patients with end stage renal disease (ESRD) indicate that vildagliptin exposure is similar to that in patients with severe renal impairment. LAY151 concentrations in ESRD patients were approximately 2-3-fold higher than in patients with severe renal impairment.

Vildagliptin was removed by haemodialysis to a limited extent (3 % over a 3 - 4 hour haemodialysis session starting 4 hours post dose).

#### *Metformin hydrochloride*

In patients with decreased renal function (based on measured creatinine clearance), the plasma and blood half-life of metformin hydrochloride is prolonged and the renal clearance is decreased in proportion to the decrease in creatinine clearance.

#### **Elderly**

##### *Vildagliptin*

In otherwise healthy elderly subjects ( $\geq 70$  years), the overall exposure to vildagliptin (100 mg once daily) was increased by 32 % with an 18 % increase in peak plasma concentration compared to younger healthy subjects (18 to 40 years). These changes are not considered to be clinically relevant. DPP-4 inhibition by vildagliptin is not affected by age in the age groups studied.

##### *Metformin hydrochloride*

Limited data from controlled pharmacokinetic studies of metformin hydrochloride in healthy elderly subjects suggest that total plasma clearance of metformin hydrochloride is decreased, the half-life is prolonged, and C<sub>max</sub> is increased, compared to healthy young subjects. From these data, it appears that the change in metformin hydrochloride pharmacokinetics with aging is primarily accounted for by a change in renal function.

**VILDAMET** treatment should not be initiated in patients 80 years of age unless measurement of creatinine clearance demonstrates that renal function is not reduced.

### ***Paediatric***

No pharmacokinetic data available.

## **6 Pharmaceutical particulars**

### **6.1 List of excipients**

Ethanol, Hydroxypropyl cellulose, Microcrystalline cellulose (PH-101 and PH-102), magnesium stearate, Opadry AMB II Yellow (colourant) and Povidone K90.

Opadry AMB II Yellow ingredients: Glycerol of FA, Iron Oxide yellow, Polyvinyl alcohol (hydrolyzed), sodium lauryl sulfate, talc and titanium dioxide

### **6.2 Incompatibilities**

Not applicable

### **6.3 Shelf life**

24 months

#### **6.4 Special precautions for storage**

Store at or below 30 °C. Keep well closed.

Store in the original package and protect from moisture and light.

Keep out of the reach of children.

#### **6.5 Nature and contents of container**

**VILDAMET** film-coated Tablets is available in a Alu-Alu blister pack of 10 tablets that is packed in a printed carton size 3 x 10 along with the package leaflet inside the printed carton.

#### **6.6 Special precautions for disposal and other handling**

Any unused medicine or waste material should be disposed of in accordance with local requirements

### **7 Holder of certificate of registration**

Innovata Pharmaceuticals (Pty) Ltd

Crownwood Office Park

100 Northern Parkway

Ormonde

Johannesburg

2091

South Africa

### **8 Registration numbers**

VILDAMET 50/850: 59/21.2/0253

VILDAMET 50/1000: 59/21.2/0254

**9 Date of first authorization/Renewal of the authorization**

11 February 2025

**10 Date of revision of the text**

TBI

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## **PROPOSED PROFESSIONAL INFORMATION**

**S3**

### **SKEDULERINGSSTATUS**

#### **1. NAAM VAN DIE MEDISYNE:**

**VILDAMET 50/ 850 mg**

**VILDAMET 50/ 1000 mg**

#### **2. KWALITATIEWE EN KWANTITATIEWE SAMESTELLING:**

**VILDAMET 50 mg/850 mg:** Elke tablet bevat 50 mg vildagliptien en 850 mg metformienhidrochloried.

**VILDAMET 50 mg/1 000 mg:** Elke tablet bevat 50 mg vildagliptien en 1 000 mg metformienhidrochloried.

#### **Suikervry**

Vir die volledige lys van eksipiënte, sien **afdeling 6.1**

#### **3. FARMASEUTIESE VORM:**

Filmbedekte Tablet

**VILDAMET 50 mg/ 850 mg** filmbedekte tablette:

Geel kleur ovaloïed-vormige tablette glad op albei klante.

**VILDAMET 50 mg/ 1000 mg** filmbedekte tablette:

Donkergeel kleur ovaloïed-vormige tablette glad op albei klante.

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#### **4. KLINIESE BESONDERHEDE:**

##### **4.1 Terapeutiese Indikasies**

Vir pasiënte met Tipe 2 diabetes mellitus (T2DM):

**VILDAMET** is aangedui as 'n adjunk tot dieët en oefening by pasiënte wat alreeds gestabiliseer is met die kombinasie van vildagliptien en metformienhidrochloried by dieselfde doserings, as aparte tablette.

**VILDAMET** is aangedui as toevoeging tot insulien as 'n adjunk tot dieët en oefening by pasiënte op 'n stabiele dosis van insulien plus vildagliptien en metformienhidrochloried.

**VILDAMET** is aangedui as 'n adjunk tot insulien by dieselfde doserings as die aparte tablette van vildagliptien en metformienhidrochloried.

**VILDAMET** is aangedui in kombinasie met sulfonielureum (SU) (d.w.s. drievoudige kombinasie terapie) as 'n adjunk tot dieët en oefening by pasiënte gestabiliseer op vildagliptien, metformienhidrochloried en 'n sulfonielureum.

**VILDAMET** kan gebruik word vir die vervanging van vildagliptien en metformienhidrochloried by dieselfde dosis, as die aparte tablette.

##### **4.2 Posologie en metode van toediening**

###### **Posologie**

Met gebruik van **VILDAMET** moet die maksiksum daaglikse dosis van vildagliptien (100 mg) nie oorskry word nie.

Die aanbevole aanvangsdosis van **VILDAMET** moet gebaseer word op die pasiënt se huidige regimen van vildagliptien en/of metformienhidrochloried.

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*Gebruik in kombinasie met sulfonielureum of met insulien:*

Die dosis van **VILDAMET** moet voorsien vir vildagliptien gedoseer as 50 mg twee keer per dag (100 mg totale daaglikse dosis) en 'n dosis van metformienhidrochloried, soortgelyk aan die dosis wat alreeds geneem word.

### **Spesiale Bevolkings:**

*Pasiënte met nierinkorting:*

'n GFR moet beraam word voor die begin van behandeling met metformienhidrochloried-bevattende produkte (soos **VILDAMET**) en ten minste jaarliks daarna. Pasiënte wat 'n verhoogde risiko het vir verdere agteruitgang van nierinkorting en by bejaardes, moet nierfunksie meer dikwels beraam word, bv. elke 3-6 maande.

Die maksimum daaglikse dosis van metformienhidrochloried moet verkieslik verdeel word in 2 tot 3 daaglikse doserings. Faktore wat die risiko van laktiese asidose kan laat toeneem (sien afdeling 4.4) moet hersien word voordat oorweging gegee word vir die begin van metformienhidrochloried-bevattende produkte (soos **VILDAMET**) in pasiënte met GFR < 60 ml/min. **VILDAMET** is teenaangedui in pasiënte met GFR < 30 ml/min weens sy metformienhidrochloried komponent (sien afdeling 4.3).

Die volgende doseringsaanbevelings is van toepassing met metformienhidrochloried en vildagliptien, wanneer apart gebruik word of in

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kombinasie, in pasiënte met nierinkorting. Indien geen voldoende sterkte van **VILDAMET** beskikbaar is, behoort individuele komponente gebruik te word in plaas van die vaste dosis kombinasie.

### Doseringsaanpassings by pasiënte met nierinkorting

GFR ml/min	Metformienhidrochloried	Vildagliptien
60 - 89	Maksimum daaglikse dosis is 3000 mg*. Doseringsafname kan oorweeg word indien nierfunksie afneem.	Maksimale daaglikse dosis is 100 mg.
45 - 59	Aanvangsdosering behoort nie meer te wees as 1000 mg met 'n maksimum daaglikse dosis van 2000 mg*.	Maksimale daaglikse dosis is 50 mg.
30 - 44	Aanvangsdosering behoort nie meer te wees as 500 mg met 'n maksimum daaglikse dosis van 1000 mg.	
< 30	Metformienhidrochloried is teenaangedui.	

\*Indien metformienhidrochloried doserings hoër is as dié wat bereik word met

**VILDAMET** alleen oorweeg word om nodig te wees.

*Pasiënte met lewerinkorting:*

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**VILDAMET** word nie aanbeveel by pasiënte met kliniese of laboratorium bewys van lewerinkorting nie, insluitend pasiënte met 'n voor-behandeling ALT van aanbevole ALT of AST > 2, 5 x die BLN (sien afdeling 4.4).

*Bejaardes:*

Omdat metformienhidrochloried deur die niere uitgeskei word en bejaarde pasiënte neig om verminderde nierfunksie te wys, behoort bejaarde pasiënte wat metformienhidrochloried-bevattende produkte (soos **VILDAMET**) neem, hulle nierfunksie gereëld te laat monitor. Die dosering van **VILDAMET** vir bejaarde pasiënte behoort aangepas te word gebaseer op nierfunksie (sien afdeling 4.3 "Niersiekte" en afdeling 4.4 "Monitering van nierfunksie").

*Pediatriese pasiënte:*

Veiligheid en effektiwiteit van **VILDAMET** in pediatriese pasiënte is nog nie vasgestel nie. Dus word **VILDAMET** nie aanbeveel vir gebruik in kinders onder 18 jaar oud nie.

**Metode van toediening**

Orale toediening.

**VILDAMET** behoort toegedien te word met maaltye om die gastroïntestinale newe-effekte geassosieer met metformienhidrochloried te verminder.

**4.3 Kontra-indisasies**

*Hipersensitiwiteit:*

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**VILDAMET** is teenaangedui in pasiënte met bekende hipersensitiwiteit vir vildagliptien of metformienhidrochloried of vir enige van die eksipiënte van **VILDAMET** soos aangedui in afdeling 6.1.

***Niersiekte:***

**VILDAMET** is teenaangedui in pasiënte met:

- Ernstige nierinkorting (GFR < 30 ml/min) (sien afdelings 4.2 en 4.4).
- Akute toestande met die potensiaal om nierfunksie te verander, soos:
  - dehidrasie,
  - ernstige infeksie,
  - skok,
  - intravaskulêre toediening van geïodeerde kontrasmiddels (sien afdeling 4.4).

***Pasiënte met lewerinkorting:***

**VILDAMET** is teenaangedui in pasiënte met lewerinkorting, insluitend pasiënte met voorbehandeling van ALT of AST > 2,5 x die boonste limiet van normaal (sien afdeling 4.4).

***Kongestiewe hartversaking:***

**VILDAMET** is teenaangedui in pasiënte met kongestiewe hartversaking wat farmakologiese behandeling vereis (sien afdeling 4.4).

***Metaboliese asidose:***

**VILDAMET** is teenaangedui in pasiënte met akute of chroniese metaboliese asidose, insluitend laktiese asidose of diabetiese keto-asidose, met of sonder koma. Diabetiese keto-asidose behoort met insulien behandel te word.

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**VILDAMET** is teenaangedui in akute alkohol intoksikasie, alkoholisme sowel as in akute of chroniese siekte wat weefsel-hipoksie kan veroorsaak soos:

- kardiaale of respiratoriese versaking,
- onlangse miokardiale infarkt,
- skok.

#### **4.4 Spesiale waarskuwings en voorsorgmaatreëls vir gebruik**

**VILDAMET** is nie 'n substituuat vir insulien in pasiënte wat insulien benodig nie.

**VILDAMET** behoort nie gebruik te word in pasiënte met tipe 1 diabetes of vir die behandeling van diabetiese keto-asidose nie.

Indien metaboliese asidose vermoed word, behoort behandeling met **VILDAMET** gestaak te word en die pasiënt moet onmiddellik gehospitaliseer word (sien afdeling 4.9).

**VILDAMET** behoort gestaak te word indien bewys van nierinkorting teenwoordig is.

#### **Alkohol inname**

Alkohol is bekend om die effekte van metformienhidrochloried te potensieer op laktaat metabolisme. Pasiënte behoort gewaarsku te word teen oormatige alkohol

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inname terwyl hulle metformienhidrochloried-bevattende produkte ontvang (soos **VILDAMET**).

Alkohol intoksikasie word geassosieer met 'n verhoogde risiko van laktiese asidose, veral in gevalle van vas, wanvoeding of hepatiese inkorting.

### **Toediening van intravaskulêre geïodeerde kontras middels**

**VILDAMET** moet tydelik gestaak word in pasiënte wat radiologiese studies ondergaan met betrokkenheid tot intravaskulêre toediening van geïodeerde kontras middels, omdat gebruik van sulke produkte akute verandering van nierfunksie tot gevolg kan hê en toename in die risiko van laktiese asidose. In pasiënte wat sulke studies ondergaan, moet **VILDAMET** tydelik gestaak word tydens of voor die prosedure, terug gehou word vir 48 uur na die prosedure en heringestel word slegs nadat nierfunksie weer ge-evalueer was en gevind word om normaal te wees.

### **Hepatiëse inkorting**

Vildagliptien word nie aanbeveel in pasiënte met hepatiese inkorting nie, insluitend pasiënte met voor behandeling ALT of AST 3 x die BLN (sien afdeling 4.3).

### **Lewerensiem monitering**

Gevalle van hepatiese disfunksie (insluitend hepatitis) was gerapporteer met vildagliptien. In hierdie gevalle was die pasiënte gewoonlik asimptomaties sonder

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kliniese gevolge en lewerfunksie toetse (LFT) het teruggekeer na normaal nadat behandeling gestaak is. LFT moet gedoen word voor die begin van behandeling met **VILDAMET**. LFT behoort gemonitor te word gedurende **VILDAMET** behandeling by drie-maandelikse intervalle gedurende die eerste jaar en periodiek daarna. Pasiënte wie verhoogde transaminase vlakke ontwikkel behoort gemonitor te word met 'n tweede lewerfunksie evaluasie om die bevinding te bevestig en daarna opgevolg word met dikwelse lewerfunksie toetse totdat die abnormaliteit(e) terugkeer na normaal. Indien 'n verhoging AST of ALT van 3 x BLN of groter voortduur, word onttrekking van terapie met **VILDAMET** aanbeveel. Pasiënte wat geelsug ontwikkel of ander tekens suggestief van lewerdisfunksie moet **VILDAMET** staak en hulle mediese praktisyn onmiddellik kontak. Na onttrekking van behandeling met **VILDAMET** en LFT normalisering, moet **VILDAMET** nie weer begin word nie.

### **Akute Pankreatitis**

Gebruik van vildagliptien was geassosieer met 'n risiko vir ontwikkeling van akute pankreatitis. Pasiënte moet ingelig word omtrent die kenmerkende simptome van akute pankreatitis.

Indien pankreatitis vermoed word, behoort vildagliptien onttrek te word; indien akute pankreatitis bevestig word, moet daar nie weer met vildagliptien begin word nie.

Versigtigheid is nodig in pasiënte met 'n geskiedenis van akute pankreatitis.

### **Hartversaking**

'n Kliniese studie van vildagliptien in pasiënte met New York Heart Association (NYHA) funksionele klas I-III het gewys dat behandeling met vildagliptien nie geassosieer was met 'n verandering in linker-ventrikulêre funksie of agteruitgang van voorafbestaande kongestiewe hartversaking (KHV) versus plasebo nie. Kliniese

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ondervinding in pasiënte met NYHA funksionele klas III wat behandel was met vildagliptien is nog beperk en resultate nie oortuigend was nie.

Daar is geen ondervinding met die gebruik van vildagliptien in kliniese studies in pasiënte met NYHA funksionele klas IV nie en dus word gebruik nie aanbeveel in hierdie pasiënte nie.

Vildagliptien soos bevat in **VILDAMET** kan artralgie veroorsaak wat ernstig kan wees.

### **Ernstige kutaneuse ongunstige reaksies**

Ernstige kutaneuse ongunstige reaksies (EKOR) soos toksiese epidermale nekrolise (TEN), Steven-Johnson se sindroom, erythema multiforme, akute algemene eksantemateuse pustulose, eritroderma (algemene eksfoliatiewe dermatitis) en pemfigoïed is gerapporteer in pasiënte wat behandel was met DPP-4 inhibeerders, insluitend **VILDAMET**. EKOR word beskou as 'n klas effek van DPP-4 inhibeerders, soos **VILDAMET**. Indien 'n pasiënt EKOR ontwikkel, moet behandeling met DPP-4 inhibeerders, soos **VILDAMET**, onmiddellik gestaak word en toepaslike behandeling ingestel word. Pasiënte moet voortgaan met 'n alternatiewe klas van anti-diabetiese medisynes.

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## **Rabdomiolise**

Rabdomiolise is gerapporteer gedurende gebruik van DPP-4 inhibeerder bevattende produkte, soos **VILDAMET**. Oorsaaklikheid kon egter nie vasgestel word nie weens verwarde faktore, soos meegaande gebruik van medisynes (statiene, kolsigiene, ens.) of ko-morbiditeit toestande (nierversaking, hipovolemie, ens.), wat bekend is vir ontwikkeling of vatbaarheid vir die ontwikkeling van rabdomiolise. Noukeurige monitering van pasiënte met gebruik van DPP-4 inhibeerder-bevattende medisynes in teenwoordigheid van vatbare risiko faktore word aanbeveel.

## **Metformienhidrochloried**

### **Laktiese Asidose**

Laktiese asidose is 'n ernstige metaboliese komplikasie wat meestal voorkom by akute agteruitgang van nierfunksie of kardiorespiratoriese siekte of sepsis. Metformienhidrochloried akkumulاسie kom voor by akute agteruitgang van nierfunksie en verhoog die risiko van laktiese asidose.

Ingeval van dehidrasie (bv. ernstige diarree of braking, koors of verminderde vloeistof inname), moet die pasiënt die gebruik van metformienhidrochloried bevattende produkte staak (soos in **VILDAMET**) en mediese sorg moet verkry word.

Medisyne produkte wat nierfunksie akuit kan belemmer (soos antihipertensiewe, diuretiese en NSAIDs), moet versigtig begin word by metformienhidrochloried-

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behandelde pasiënte (soos **VILDAMET**). Ander risiko faktore vir laktiese asidose is uitermatige alkohol-inname, hepatiese ontoereikendheid, onvoldoende gekontroleerde diabetes, ketose, verlengde vas en enige toestande geassosieer met hipoksie, sowel as meegaande gebruik van medisyne produkte wat laktiese asidose kan veroorsaak (sien afdelings 4.3 en 4.5).

### **Diagnose van laktiese asidose**

Pasiënte en/of versorgers moet ingelig word omtrent die risiko van laktiese asidose.

Laktiese asidose word gekenmerk deur asidotiese dispnee, abdominale pyn,

spierkrampe, astenie en hipotermie, gevolg deur koma. Diagnostiese laboratorium

bevindings is afname in bloed pH (< 7,35), verhoogde plasma-laktaatvlakke > 5

mmol/L en 'n verhoogde anion gap en laktaat/piruvaat ratio. Indien metaboliese

asidose vermoed word, moet behandeling met metformienhydrochloried-bevattende

produkte (soos **VILDAMET**) gestaak en die pasiënt moet onmiddellik gehospitaliseer

word.

### **Monitering van nierfunksie**

GFR moet bepaal word voor begin van behandeling en gereëld daarna (sien afdeling

4.2). Metformienhydrochloried-bevattende produkte (soos **VILDAMET**) word

teenaangedui by pasiënte met GFR < 30 ml/min en moet tydelik gestaak word in die

teenwoordigheid van toestande wat nierfunksie verander (sien afdeling 4.3).

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Metformienhidrochloried word substanseel uitgeskei deur die niere en die risiko van metformienhidrochloried akkumulاسie en laktiese asidose neem toe met die graad van nierfunksie inkorting.

Omdat gevorderde ouderdom geassosieer word met verminderde nierfunksie, behoort metformienhidrochloried-bevattende produkte (soos **VILDAMET**) versigtig getitreer te word in bejaardes om vas te stel wat die minimum dosis is vir voldoende glisemiese effek en die nierfunksie moet gereëld gemonitor word (sien afdeling 4.2).

### **Meegaande medikasies wat nierfunksie van metformienhidrochloried disposisie kan beïnvloed**

Meegaande medikasies wat nierfunksie kan beïnvloed, het tot gevolg beduidende hemodinamiese verandering of inmenging met die disposisie van metformienhidrochloried, soos kationiese medisynes wat uitgeskei word deur renale tubulêre sekresie wat versigtig gebruik moet word (sien afdeling 4.5).

### **Hipoksiese staat**

Kardiovaskulêre kollaps (skok), akute kongestiewe hartversaking, akute miokardiale infarkt en ander toestande gekenmerk deur hipoksemie word geassosieer met laktiese asidose en kan ook prerendale uremie veroorsaak. Indien sulke voorvalle voorkom in pasiënte wat **VILDAMET**-terapie ontvang, moet die medikasie dadelik onttrek word.

### **Sjirurgiese prosedures**

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Gebruik van **VILDAMET** moet tydelik gestaak word vir enige sjirurgiese prosedure (behalwe klein prosedures wat nie geassosieer word met beperkte inname van voedsel en vloeistowwe nie) en moet nie weer begin word nie totdat die pasiënt se orale inname weer begin en nierfunksie ge-evalueer word as normaal.

### **Ingekorte lewerfunksie**

Sedert ingekorte lewerfunksie geassosieer was met sommige gevalle van laktiese asidose, 'n risiko geassosieer met metformienhidrochloried, behoort metformienhidrochloried-bevattende produkte (soos **VILDAMET**) gewoonlik vermy te word in pasiënte met kliniese of laboratorium bewysvan lewersiekte.

### **Vitamien B12-vlakke**

Die metformienhidrochloried komponent van **VILDAMET** was geassosieer met 'n afname in serum vitamien B12 vlakke sonder kliniese manifestasies, in ongeveer 7 % van pasiënte. Sulke afnames word geassosieer met anemie en blyk om vinnig omkeerbaar te wees met onttrekking van metformienhidrochloried en/of vitamien B12 aanvulling.

Meet van hematologiese parameters ten minste op 'n jaarlikse basis word aanbeveel vir pasiënte wat metformienhidrochloried-bevattende produkte ontvang (soos **VILDAMET**) en enige klaarblyklike abnormaliteite moet toepaslik ondersoek en gehanteer word. Sekere individue (bv. dié met onvoldoende vitamien B12 of kalsium inname of absorpsie) blyk om geneig te wees tot ontwikkeling van subnormale

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vitamien B12-vlakke. In hierdie pasiënte kan roetiense serum-vitamien B12 metings minstens met twee-to-drie-jaar intervalle nuttig wees.

## **Verandering in kliniese status van pasiënte met vorige gekontroleerde tipe 2 diabetes**

'n Pasiënt met tipe 2 diabetes wat voorheen goed gekontroleer was op **VILDAMET** wat laboratorium abnormaliteite ontwikkel of kliniese siekte (veral vaag en swak gedefinieerde siekte) moet vinnig ge-evalueer word vir keto-asidose en/of laktiese asidose. Indien asidose, in enige vorm, voorkom moet **VILDAMET** onmiddellik gestaak en toepaslike maatreëls ingestel word.

## **Hipoglisemie**

Hipoglisemie kom nie voor in pasiënte wat **VILDAMET** alleen ontvang nie, maar kan voorkom wanneer kaloriese inname ontoereikendheid is, wanneer uitputtende oefening nie gekompenseer word deur kaloriese aanvulling nie, of etanol gebruik.

Bejaardes, verswakte of ondervoede pasiënte en dié met adrenale of pituitêre ontoereikendheid of alkohol intoksikasie is gevoelig tot hipoglisemiese effekte.

Hipoglisemie kan moeilik wees om te identifiseer in bejaardes en in persone wat beta-adrenergiese blokker medisyne neem.

Hipoglisemie kan voorkom wanneer **VILDAMET** gebruik word as 'n toevoeg-terapie tot ander anti-diabetiese medisyne.

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### **Verlies van kontrole van bloedglukose**

Wanneer 'n pasiënt gestabiliseer op enige diabetiese regimen blootgestel word aan stres soos koors, trouma, infeksie, sjirurgie ens., mag 'n tydelike verlies van glisemiese kontrole voorkom. By sulke tye mag dit nodig wees om **VILDAMET** te onttrek en tydelike insulien toe te dien. **VILDAMET** kan heringestel word na die akute episode opgeklaar het.

## **4.5 Interaksie met ander medisynes en ander vorms van interaksie**

### **VILDAMET**

Geen klinies beduidende farmakokinetiese interaksie was waargeneem wanneer vildagliptien (100 mg een keer per dag) saam toegedien was met metformienhidrochloried nie (1 000 mg een keer per dag). Medisyne interaksies vir elke komponent van **VILDAMET** was ekstensief bestudeer. Nogtans het die meegaande gebruik van die aktiewe substansie in pasiënte in kliniese studies en met wydverspreide kliniese gebruik nie enige onverwagte interaksies tot gevolg gehad nie.

Die volgende verklaring reflekteer die inligting beskikbaar op die individuele aktiewe substansie (vildagliptien en metformienhidrochloried).

### ***Vildagliptien***

Vildagliptien, soos bevat in **VILDAMET**, het 'n lae potensiaal vir medisyne interaksies. Sedert vildagliptien nie 'n sitochroom P (CYP) 450 ensiem substraat is nie, en ook nie CYP450 ensieme inhibeer of induseer nie, is dit onwaarskynlik om 'n

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wisselwerking te hê met meegaande medisynes wat substrate is, inhibeerders of induseerders van hierdie ensieme.

Verder beïnvloed vildagliptien nie metaboliese opruiming van meegaande medisynes gemetaboliseer deur CYP 1A2, CYP 2C8, CYP 2C9, CYP 2C19, CYP 2D6, CYP 2E1 en CYP 3A4/5 nie. Medisyne-medisyne interaksie studies was gedoen met algemeen voorgeskrewe medikasies vir pasiënte met tipe 2 diabetes of medikasies met 'n nou terapeutiese venster. As gevolg van hierdie studies was geen klinies relevante interaksies met ander orale antidiabetiese middels (glibenklamied, pioglitason en metformienhidrochloried), amlodipien, digoksien, ramipril, simvastatien, valsartan of warfarin waargeneem na meegaande toediening met vildagliptien nie.

### ***Kombinasie met AOE-inhibeerders***

Daar kan 'n toenemende risiko van angio-edeem wees in pasiënte wat ook AOE-inhibeerders neem (sien afdeling 4.8).

Die hipoglisemiese effek van vildagliptien kan verminder word deur sekere aktiewe substansie, insluitend tiasiede, kortikosteroïede, tiroïed produkte en simpatomimetiese middels.

### ***Metformienhidrochloried***

Die volgende is bekend omtrent metformienhidrochloried:

***Furosemied*** - Furosemied verhoog Cmaks en bloed AOK van metformienhidrochloried met geen verandering in renale opruiming van

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metformienhidrochloried. Metformienhidrochloried verminder Cmaks bloed AOK van furosemied met geen verandering in renale opruiming van furosemied.

*Nifedipien* - Nifedipien het absorpsie verhoog, Cmaks en AOK van metformienhidrochloried en verhoogde ekskresie van metformienhidrochloried in uriene. Metformienhidrochloried het minimale effekte op nifedipien.

*Gliburied* - Gliburied het geen veranderinge in metformienhidrochloried PK/PD parameters gehad nie. Afnames in Cmaks bloed AOK van gliburied was waargeneem, maar was hoogs veranderlik. Dus is die kliniese betekenis van hierdie bevinding nie duidelik nie.

*Kationiese medisynes* - Kationiese medisynes (bv. amiloried, digoksien, morfien, prokaïenamied, kinidien, kinien, ranitidien, triamtereen, trimetoprim, of vankomisien) wat uitgeskei word deur renale tubulêre sekresie het teoreties die potensiaal vir interaksie met metformienhidrochloried, deur te kompeteer vir algemene renale tubulêre transport-sisteme. Dus het simetidien verhoog in metformien plasma/bloed-konsentrasie en AOK was waargeneem om 60 % en 40 % respektiewelik te wees. Metformienhidrochloried het geen effek op simetidien PK nie. Alhoewel sulke interaksies teoreties is (behalwe vir simetidien), word noukeurige monitering van pasiënte en dosings van metformienhidrochloried-bevattende medisynes (soos **VILDAMET**) en sulke medikasies aanbeveel.

*Ander* - Sommige medisynes kan renale funksie ongunstig beïnvloed met die risiko van laktiese asidose, bv. NSAIDs, insluitend selektiewe siklo-oksigenase (COX) II

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inhibeerders, AOE-inhibeerders, angiotensien II reseptor antagoniste en diuretika, veral lus diuretika. Wanneer daar met sulke medisyne begin word of gebruik van sulke medisyne in kombinasie met metformienhidrochloried-bevattende produkte (soos **VILDAMET**), is noukeurige monitering van nierfunksie nodig. Sekere medisyne neig om hiperglisemie te veroorsaak en kan tot gevolg hê in verlies van glisemiese kontrole. Hierdie medisyne sluit in die tiasiede en ander diuretiese middels, kortikosteroïede, fenotiasiene, tiroïed produkte, estrogene, orale kontraseptiewe middels, fenitoïen, nikotiensuur, simpatomimetika, kalsiumkanaal-blokker medisyne en isoniasied. Noukeurige monitering van glisemiese kontrole en metformienhidrochloried doseringsaanpassings word aanbeveel wanneer sulke medisyne toegedien of onttrek word by hierdie pasiënte.

Daar is 'n verhoogde risiko van laktiese asidose in akute alkohol intoksikasie (veral in die geval van vas, wanvoeding of hepatiese inkorting) weens metformienhidrochloried. Vermoed die inname van alkohol en medisinale produkte wat alkohol bevat (sien afdeling 4.4).

#### **4.6 Fertilititeit, swangerskap en laktasie**

##### **Swangerskap**

Veiligheid in swangerskap is nog nie vasgestel nie. **VILDAMET** moet nie gebruik word gedurende swangerskap nie.

##### **Laktasie**

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Veiligheid in laktasie is nog nie vasgestel nie. **VILDAMET** moet nie toegedien word wanneer vrouens borsvoed nie.

### **Fertiliteit**

Geen studies van die effek op menslike fertiliteit is gedoen of vasgestel nie.

## **4.7 Effekte op vermoë om te bestuur en gebruik van masjinerie**

**VILDAMET** kan duiseligheid veroorsaak. Pasiënte wat duiseligheid ondervind moet vermy om 'n voertuig te bestuur of masjinerie te gebruik.

## **4.8 Ongewenste effekte**

### **Opsomming van die veiligheidsprofiel**

Veiligheidsinligting was verkry van pasiënte wat blootgestel was aan vildagliptien/metformienhidrochloried in 'n ewekansige plasebo-gekontroleerde studie.

Vildagliptien gebruik word geassosieer met die risiko vir ontwikkeling van pankreatitis. Laktiese asidose was gerapporteer na die gebruik van metformienhidrochloried, veral in pasiënte met onderliggende renale inkorting (sien afdeling 4.4).

### **Getabuleerde lys van ongunstige reaksies**

Ongunstige reaksies gerapporteer in pasiënte wat vildagliptien ontvang het in dubbel-blinde kliniese studies as monoterapie en toevoeg terapieë word hieronder aangedui deur sisteem orgaan klas en absolute frekwensie. Binne elke frekwensie groepering word ongunstige reaksies aangedui volgens afname van ergheid.

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**Tabel 1 Ongunstige reaksies gerapporteer in pasiënte wat vildagliptien en metformienhidrochloried ontvang het (as mono-komponente of as vaste dosis kombinasie), of in kombinasie met ander anti-diabetiese behandelings, in kliniese studies en in na-bemaking ondervinding.**

<b><u>Sistiem Orgaan</u></b>		
<b><u>Klas</u></b>	<b><u>Frekwensie</u></b>	<b><u>Neuwe-effekte</u></b>
<b>Infeksies &amp; Infestasies</b>	<i>Dikwels</i>	Boonste lugweg-infeksie, nasofaringitis
<b>Metabolisme en voedings-afwykings</b>	<i>Minder</i> <i>Dikwels</i>	Hipoglisemie, verlies van aptyt, afname van vitamien B <sub>12</sub> absorpsie en laktiese asidose*
<b>Senuweestelsel-afwykings</b>	<i>Dikwels</i>	Duiseligheid, hoofpyn, tremor
	<i>Minder</i> <i>Dikwels</i>	Metaal smaak
<b>Gastroïntestinale afwykings</b>	<i>Dikwels</i>	Braking, diarree, naarheid, gastro-esofageale refluks siekte, winderigheid, hardlywigheid, abdominale pyn insluitend aan bokant

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	<i>Minder</i> <i>Dikwels</i>	Pankreatitis
<b>Hepatobiliêre afwykings</b>	<i>Minder</i> <i>Dikwels</i>	Hepatitis
<b>Vel- en subkutaneuse weefsel-afwykings</b>	<i>Dikwels</i>	Hiperhidrose, pruritis, uitslag, dermatitis,
	<i>Minder</i> <i>Dikwels</i>	Eriteem en urtikarie
	<i>Frekwensie</i> <i>onbekend</i>	Eksfoliatiewe en bulleuse vel-lletsels, insluitend bulleuse pemfigoïed <sup>\$</sup>
<b>Muskuloskeletale en bindweefsel-afwykings</b>	<i>Dikwels</i>	Artralgie
	<i>Minder</i> <i>Dikwels</i>	Mialgie
<b>Algemene afwykings en toedieningsitus toestande</b>	<i>Dikwels</i>	Astenie

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	<i>Minder</i> <i>Dikwels</i>	Uitputting, koue, edeem perifêre
<b>Ondersoeke</b>	<i>Minder</i> <i>Dikwels</i>	Abnormale lewer- funksie toetse

\*Ongunstige reaksies gerapporteer in pasiënte wat metformienhidrochloried ontvang het as monoterapie en wat nie waargeneem was in pasiënte wat vildagliptien + metformienhidrochloried vaste dosis kombinasie ontvang het nie. Verwys na die professionele inligting vir metformienhidrochloried vir addisionele inligting.

§Gebaseer op na-bemaking ondervinding.

## **Beskrywing van geselekteerde ongunstige reaksies**

### ***Vildagliptien***

#### ***Hepatiëse inkorting***

Gevalle van hepatiëse disfunksie (insluitend hepatitis) was gerapporteer met vildagliptien. Volgens data met gekontroleerde monoterapie en toevoeg-terapie studies van tot 24 weke lank, was die insidensie van ALT of AST verhogings  $\geq 3x$  BLN (geklassifiseer as teenwoordig op ten minste 2 opeenvolgende metings of tydens die finale op-behandeling besoek) 0.2%, 0.3% en 0.2% vir vildagliptien 50 mg een keer per dag, vildagliptien 50 mg twee keer per dag en alle vergelykings, respektiewelik. Hierdie verhoging in transaminase was gewoonlik asimptomaties, nie-progressief van aard en nie geassosieer met cholestase of geelsug nie.

#### ***Angio-edeem***

Gevalle van angio-edeem was gerapporteer met vildagliptien teen 'n soortgelyke tempo as kontrole. 'n Groter deel van gevalle was gerapporteer wanneer vildagliptien

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toegedien was in kombinasie met 'n AOE-inhibeerder. Die meeste gevalle was lig en het opgeklaar met voortdurende vildagliptien behandeling.

### **Hipoglisemie**

Hipoglisemie was minder dikwels wanneer vildagliptien (0.4%) gebruik was as monoterapie in vergelykende gekontroleerde monoterapie studies met 'n aktiewe vergelyker of plasebo (0.2%). Geen uiterste of ernstige voorvalle van hipoglisemie was gerapporteer nie.

### **Rabdomiolise**

Ernstige kutaneuse ongunstige reaksies (EKOR) soos toksiese epidermale nekrolise (TEN), Steven-Johnson se sindroom, erythema multiforme, akute algemene eksateem pustulose, eritroderma (algemene eksfoliatiewe dermatitis) en pemfigoïed was gerapporteer by pasiënte wat behandel was met DPP - 4 inhibeerders, insluitend **VILDAMET**.

### **Metformienhidrochloried:**

#### **Afname van vitamien B12 absorpsie**

'n Afname in vitamien B12 absorpsie met afname in serumvlakke was waargeneem in pasiënte wat behandel was met metformienhidrochloried oor 'n lang tydperk.

Oorweging van sulke etiologie word aanbeveel indien die pasiënt presenteer met megaloblastiese anemie.

### **Lewerfunksie**

Geïsoleerde gevalle van lewerfunksie toets abnormaliteite of hepatitis wat opgeklaar het met metformienhidrochloried onttrekking is gerapporteer.

### **Gastroïntestinale afwykings**

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Gastroïntestinale ongunstige reaksies kom meer dikwels voor gedurende begin van terapie en het spontaan opgeklar in die meeste gevalle.

Ernstige kutaneuse ongunstige (EKOR) soos toksiese epidermale nekrolise (TEN), Steven-Johnson se sindroom, veelvuldige eriteem, akute algemene eksateem pustulose, eritroderma (algemene eksfoliatiewe dermatitis) en pemfigoïed was gerapporteer in pasiënte wat behandel was met DPP- 4 inhibeerders, insluitend **VILDAMET**.

### **Rapporteer van vermoedelike ongunstige reaksies**

Rapporteer van vermoedelike ongunstige reaksies na goedkeuring van die medisyne is belangrik. Dit laat toe vir volgehoue monitering van die voordeel/risiko balans van die medisyne. Gesondheidsorgvoorsieners word versoek om enige vermoedelike ongunstige reaksies te rapporteer aan SAHPRA via die “**6.04 Adverse Drug Reactions Reporting Form**”, wat aanlyn gevind word onder SAHPRA se publikasies: <https://www.sahpra.org.za/Publications/Index/8>

## **4.9 Oordosering**

Tekens en simptome

Vildagliptien

Verslae sluit in spierpyn, parestesie, koors en edeem. Toenames in lipase vlakke (2 x BLN), kreatien fosfokinase (KFK) vlakke, aspartaat aminotransferase (AST), C-reaktiewe proteïen en mioglobien kan voorkom. Vildagliptien is nie dialiseerbaar nie, alhoewel die major hidrolise metaboliet (LAY151) verwyder kan word deur hemodialise.

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Metformienhidrochloried

Hipoglisemie kan ontwikkel en moet gemonitor word. Laktiese asidose is gerapporteer in metformienhidrochloried oordosis gevalle. Metformienhidrochloried is dialiseerbaar met 'n opruiming van tot 170 mL/min onder goeie hemodinamiese toestande. Dus kan hemodialise nuttig wees vir verwydering van opgehoopte medisyne van pasiënte in wie metformienhidrochloried oordosering vermoed word. Ingeval van oordosering moet toepaslike ondersteunende behandeling ingestel word volgens die pasiënt se kliniese tekens en simptome.

## **5. Farmakologiese eienskappe**

Farmakologiese Klassifikasie: A 21.2. Orale hipoglisemiese middels

### **5.1 Farmakodinamiese eienskappe**

Farmakoterapeutiese groep: Middels wat gebruik word in diabetes, kombinasies van orale bloedglukose verlagende medisyne, ATC kode: A10BD08

## **VILDAMET**

**VILDAMET** kombineer twee antihyperglisemiese medisyne met verskillende meganismes van werking om glisemiese kontrole te verbeter in pasiënte met tipe 2 diabetes: vildagliptien, 'n lid van die DPP-4 (dipeptidiel-peptidase-4) inhibeerder klas and metformienhidrochloried, 'n lid van die biguanied klas.

### *Vildagliptien*

Vildagliptien, 'n lid van die 'islet' versterker klas, is 'n potente en selektiewe dipeptidiel-peptidase-4 (DPP-4) inhibeerder wat glisemiese kontrole verbeter.

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**Dosage Form & Strength:** *Oral Tablet, 50/850 mg and 50/1000 mg (Vildagliptin/Metformin HCL) CTD, Module 1*

Die toediening van vildagliptien het tot gevolg 'n inhibisie van DPP-4 aktiwiteit. In pasiënte met tipe 2 diabetes, toediening van vildagliptien het tot gevolg die inhibisie van DPP-4 ensiem aktiwiteit vir 'n 24-uur periode. Vildagliptien inhibisie van DPP-4 het tot gevolg in verhoogde vas en postprandiale endogene vlakke van die inkretin hormone GLP-1 (glukagon-tipe peptied 1) en GIP (glukose-afhanklik insulintropiese polipeptied.)

Deur die endogene vlakke te verhoog van hierdie inkretin hormone, verhoog vildagliptien die sensitiviteit van beta-selle tot glukose, wat tot gevolg het in verbeterde glukose-afhanklike insulien sekresie. Behandeling met 50 tot 100 mg per dag in pasiënte met tipe 2 diabetes verbeter beduidend van beta-sel funksie. Die graad van verbetering in beta-sel funksie is afhanklik van die aanvanklike graad van inkorting; in nie-diabetiese (normale glisemiese) individue, vildagliptien stimuleer nie insulien sekresie of verminder glukose vlakke nie.

Deur verhoging van endogene GLP-1 vlakke, verhoog vildagliptien die sensitiviteit van alfa selle tot glukose, met gevolglik meer glukose toepaslike glukagon sekresie. Die afname in ontoepaslike glukagon gedurende maaltye verswak om die beurt in insulien weerstand.

Die verhoogde toename in die insulien/glukagon ratio gedurende hiperglisemie weens verhoogde inkretin hormoonvlakke het tot gevolg in 'n afname in vastende en postprandiale hepatische glukose produksie, met gevolglike afname in glisemie.

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Die bekende effek van verhoogde GLP-1 vlakke om gastriese lediging te vertraag is nie waargeneem met vildagliptien behandeling nie. Addisioneel word 'n afname in postprandiale lipemie wat nie geassosieer word met vildagliptien se inkretin gemedieerde effek van verbetering 'islet' funksie te verbeter nie, waargeneem.

### **Metformienhidrochloried**

Metformienhidrochloried verbeter glukose toleransie in pasiënte met tipe 2 diabetes, met verlaging van beide basale en postprandiale plasma-glukose.

Metformienhidrochloried verminder hepatiese glukose produksie; verminder intestinale absorpsie van glukose en verbeter insulien sensitiwiteit deur verhoging van perifêre glukose opname en benutting. Met metformienhidrochloried terapie bly insulien sekresie onveranderd terwyl vastende insulienvlakke en dag-lank plasma-insulien respons kan afneem.

Metformienhidrochloried stimuleer intrasellulêre glikogeen sintese deur werking op glikogeen sintese en verhoog die transport kapasiteit van spesifieke tipes van membraan glukose transporters (GLUT-1 en GLUT-4).

In die mens, het onafhanklik van sy werking op glisemie, metformienhidrochloried gunstige effekte gehad op lipied metabolisme. Dit word gewys by terapeutiese doserings in gekontroleerde, medium-termyn of lang-termyn kliniese studies: metformienhidrochloried verminder totale cholesterol, LDL en trigliseriedvlakke.

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## **5.2 Farmakokinetiese eienskappe**

### **Absorpsie**

In die bio-ekwivalente studies van vildagliptien/metformienhidrochloried by twee dosering sterktes (50 mg/850 mg en 50 mg/1 000 mg), versus vry kombinasie van vildagliptien en metformienhidrochloried tablette by die ooreenstemmende doserings, het die area onder die kurwe (AOK) en maksimum konsentrasie (Cmaks) van beide die vildagliptien komponent en die metformienhidrochloried komponent van die vildagliptien/metformienhidrochloried tablette gedemonstreer om bio-ekwivalent te wees aan die van vry kombinasie tablette.

Voedsel beïnvloed nie die omvang en tempo van absorpsie van vildagliptien van vildagliptien/metformienhidrochloried tablette nie. Die Cmaks en AOK van die metformienhidrochloried komponent van vildagliptien/metformienhidrochloried was verminder met 26 % en 7 % respektiewelik wanneer toegedien word met voedsel. Die absorpsie van metformienhidrochloried was ook vertraag soos gereflekteer deur die Tmaks (2, 0 tot 4, 0 uur) wanneer toegedien word met voedsel. Hierdie veranderinge in Cmaks en AOK is konsekwent maar laer as die wat waargeneem word wanneer metformienhidrochloried toegedien was alleen onder gevoede toestande. Die effekte van voedsel op die farmakokinetika van beide die vildagliptien komponent en metformienhidrochloried komponent van vildagliptien/metformienhidrochloried tablette was soortgelyk aan die farmakokinetika van vildagliptien en metformienhidrochloried wanneer toegedien word alleen met voedsel.

### *Vildagliptien*

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Na orale toediening in die vastende staat, word vildagliptien goed geabsorbeer met piek plasma-konsentrasies waargeneem by 1,75 uur. Meegaande toediening met voedsel het die tempo van absorpsie van vildagliptien effens verminder, soos gekenmerk deur 'n 19% afname in piek konsentrasies en 'n vertraging in die tyd van piek plasma-konsentrasie tot 2,5 uur. Daar is geen verandering in die omvang van absorpsie nie en voedsel verander nie die algehele blootstelling nie (AOK).

### ***Metformienhidrochloried***

Die absolute biobeskikbaarheid van 'n 500 mg metformienhidrochloried tablet toegedien onder vastende toestande is ongeveer 50 tot 60 %. Studies met gebruik van enkel orale doserings van metformienhidrochloried tablette 500 mg tot 1 500 mg, en 850 mg tot 2 550 mg, dui daarop dat daar 'n gebrek is aan dosis proporsionaliteit met verhoging in doserings, wat kan wees weens afname in absorpsie eerder as aan verandering aan eliminasië. Voedsel verminder die omvang van en vertraag effens die absorpsie van metformienhidrochloried, soos gewys deur 'n ongeveer 40 % laer gemiddelde piek plasma-konsentrasie (Cmaks), 'n 25 % laer area onder die plasma-konsentrasie versus tyd kurwe (AOK) en 'n 35 minute verlenging van tyd tot piek plasma-konsentrasie (Tmaks) na toediening van 'n enkel 850 mg tablet van metformienhidrochloried met voedsel, wanneer vergelyk word met dieselfde tablet sterkte toegedien onder vastende toestande. Die kliniese betekenis van hierdie bevinding is onbekend.

### ***Liniêriteit***

Vildagliptien word goed geabsorbeer met 'n absolute orale biobeskikbaarheid van

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85 %. Piek plasma-konsentrasies vir vildagliptien en die area onder die plasma-konsentrasie versus tyd kurwe (AOK) het toegemeem in ongeveer dosis-proporsionele wyse oor die terapeutiese doseringsomvang.

## **Distribusie**

### *Vildagliptien*

Die plasma-proteïen binding van vildagliptien is laag (9,3 %); en vildagliptien versprei gelykop tussen plasma en rooi bloodselle. Die gemiddelde volume van distribusie van vildagliptien by stabiele staat na intraveneuse toediening ( $V_{ss}$ ) is 71 L, wat ekstravaskulêre distribusie suggereer.

### *Metformienhidrochloried*

Die klaarblyklike volume van distribusie ( $V/F$ ) van metformienhidrochloried na enkel orale doserings van 850 mg was gemiddeld  $654 \pm 358$  L. Metformienhidrochloried is onbeduidend gebonde aan plasma-proteïene, in teenstelling tot sulfonielureums, wat meer as 90 % aan proteïen gebonde is. Metformienhidrochloried verdeel in ertrosiete en dit is waarskynlik as gevolg van tyd. By gewone kliniese doserings en dosering-skedules van metformienhidrochloried, word stabiele staat plasma-konsentrasies van metformienhidrochloried bereik binne 24 tot 48 uur en is gewoonlik  $< 1 \mu\text{g/mL}$ . Gedurende gekontroleerde kliniese studies van metformienhidrochloried, het maksimum metformienhidrochloried plasmavlakke nie  $5 \mu\text{g/mL}$  oorskry nie, selfs by maksimum doserings.

## **Metabolisme**

### *Vildagliptien*

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Metabolisme is die hoof eliminasië baan vir vildagliptien in die mens, verantwoordelik vir 69 % van die dosis. Die hoof metaboliet, LAY151, is farmakologies onaktief en is die hidrolise produk van die siano moëteit, verantwoordelik vir 57 % van die dosis, gevolg deur die amied hidrolise produk (4 % van die dosis). DPP-4 dra gedeeltelik by tot die hidrolise van vildagliptien soos getoon in 'n *in vivo* studie met gebruik van DPP-4 tekort rotte. Vildagliptien word nie gemetaboliseer deur sitochroom P450 ensieme tot enige bepaalde omvang nie. *In vitro* studies het gedemonstreer dat vildagliptien nie sitochroom P450 ensieme inhibeer of induseer nie.

#### *Metformienhidrochloried*

Metformien word onveranderd uitgeskei in die uriene. Geen metaboliete was geïdentifiseer in die mens nie.

### **Ekskresie en eliminasië**

#### *Vildagliptien*

Na orale toediening van [14C]-vildagliptien, word ongeveer 85 % van die dosis uitgeskei in die uriene en 15 % van die dosis herwin in die feses. Renale uitskeiding van die onveranderde vildagliptien verteenwoordig 23 % van die dosis na orale toediening. Na 'n intraveneuse toediening aan gesonde persone, is die totale plasma- en renale opruimings van vildagliptien 41 liters/uur en 13 liters/uur, respektiewelik. Die gemiddelde eliminasië halfleeftyd na intraveneuse toediening is ongeveer 2 uur. Die eliminasië halfleeftyd na orale toediening is ongeveer 3 uur en is onafhanklik van die dose.

#### *Metformienhidrochloried*

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Intraveneuse enkel-dosis studies in normale persone demonstreeer dat

metformienhidrochloried onveranderd uitgeskei word in die uriene en ondergaan nie

hepatiese metabolisme nie (geen metaboliete was geïdentifiseer in die mens nie)

nòg biliêre ekskresie. Renale opruiming is ongeveer 3,5 keer groter as kreatinien-

opruiming, wat daarop dui dat tubulêre sekresie die hoof roete van eliminasië is.

Na 'n orale dosering, word ongeveer 90 % van die geabsorbeerde medisyne

uitgeskei via die renale roete binne die eerste 24 uur, met 'n plasma-eliminasië half-

leeftyd van ongeveer 6,2 uur. In bloed is die eliminasië halfleeftyd ongeveer 17,6

uur, wat suggereer dat die eritrosiet-massa 'n kompartement van distribusie kan

wees.

## **Spesiale Bevolkings**

### **Obesiteit**

#### *Vildagliptien*

BMI wys nie enige impak op die farmakokinetiese parameters of vildagliptien nie.

DPP-4 inhibisie deur vildagliptien was nie beïnvloed deur BMI nie.

### **Hepatiëse inkorting**

#### *Vildagliptien*

Die effek van ingekorte hepatisiese funksie op die farmakokinetika van vildagliptien

was bestudeer in pasiënte met ligte, matige en ernstige hepatisiese inkorting gebaseer

op die Child-Pugh tellings (wat gevarieër het vanaf 6 vir ligte tot 12 vir ernstige) in

vergelyking tot persone met normale hepatisiese funksie. Die blootstelling tot

vildagliptien (100 mg) na 'n enkel dosis in persone met ligte en matige hepatisiese

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inkorting was verminder (20 % en 8 %, respektiewelik), terwyl die blootstelling aan vildagliptien vir persone met ernstige inkorting toegeneem het met 22 %. Die maksimum verandering (toename of afname) in die blootstelling aan vildagliptien is ~30 %, wat nie oorweeg word om klinies relevant te wees nie. Daar was geen korrelasie tussen die erns van hepatiese funksie inkorting en veranderinge in blootstelling aan vildagliptien nie.

Die gebruik van vildagliptien word nie aanbeveel in pasiënte met hepatiese inkorting nie, insluitend pasiënte met 'n voorbehandeling ALT of AST > 2,5 x die BLN (boonste limiet van normaal).

#### ***Metformienhidrochloried***

Geen farmakokinetiese studies van metformienhidrochloried is gedoen in pasiënte met hepatiese inkorting nie.

### ***Nierinkorting***

#### ***Vildagliptien***

Vildagliptien AOK verhoog gemiddeld 1.4, 1.7 en 2 -voudig in pasiënte met ligte, matige en ernstige nierinkorting, respektiewelik, wanneer vergelyk tot normale pasiënte. AOK van die metaboliete LAY151 het verhoog 1.6, 3.2 en 7.3 -voudig en die van BQS867 het verhoog 1.4, 2.7 en 7.3 -voudig in pasiënte met ligte, matige en ernstige nierinkorting, respektiewelik, wanneer vergelyk word met gesonde vrywilligers. Beperkte data van pasiënte met end-stadium niersiekte (ESRD) dui daarop dat vildagliptien blootstelling soortgelyk is as die in pasiënte met ernstige

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nierinkorting. LAY151 konsentrasies in ESRD pasiënte was ongeveer 2-3-voudig hoër as in pasiënte met ernstige nierinkorting.

Vildagliptien was verwyder deur hemodialise tot 'n beperkte omvang (3 % oor 'n 3 - 4 uur hemodialise sessie met aanvang van 4 uur na dosering).

#### *Metformienhydrochloried*

In pasiënte met verminderde nierfuksie (gebaseer op afgemete kreatinienopruiming), was die plasma- en bloed halfleeftyd van metformienhydrochloried verleng en die nieropruiming verminder proporsioneel tot die afname in kreatinienopruiming.

#### **Bejaardes**

##### *Vildagliptien*

In andersins gesonde bejaarde persone ( $\geq 70$  jaar), het die algehele blootstelling tot vildagliptien (100 mg een keer per dag) verhoog met 32 % met 'n 18 % verhoging in piek plasma-konsentrasie wanneer vergelyk met jonger gesonde persone (18 tot 40 jaar). Hierdie veranderinge word nie oorweeg om klinies relevant te wees nie. Die DPP-4 inhibisie deur vildagliptien word nie beïnvloed deur ouderdom in die ouderdomsgroepe bestudeer nie.

##### *Metformienhydrochloried*

Beperkte data van gekontroleerde farmakokinetiese studies van metformienhydrochloried in gesonde bejaarde persone suggereer dat totale plasma-opruiming van metformienhydrochloried verminder word, die halfleeftyd is verleng en  $C_{max}$  word verhoog, wanneer vergelyk word met gesonde jong persone. Uit hierdie

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data blyk dit dat die verandering in metformienhidrochloried farmakokinetika met veroudering primêr verantwoordelik was vir 'n verandering in nierfunksie.

**VILDAMET** behandeling moet nie begin word in pasiënte van 80 jaar oud nie, tensy metings van kreatinien-opruiming demonstreer dat nierfunksie nie verminder word nie.

### **Pediatrics**

Geen farmakokinetiese data is beskikbaar nie.

## **6 Farmaseutiese besonderhede**

### **6.1 Lys van eksipiënte**

Etanol, Hidroksipropielsellulose, Mikrokrystallynsellulose (PH-101 en PH-102), magnesiumstearaat, Opadry AMB II Geel (kleurstof) en Povidoon K90.

Opadry AMB II Geel bestanddele: Gliserol van FA, Ysteroksied geel, Poliviniel alkohol (gehidroliseer), natriumlourielsulfaat, talk en titaniumdioksied.

### **6.2 Onverenigbaarhede**

Nie van toepassing nie

### **6.3 Rakleef tyd**

24 maande

### **6.4 Spesiale voorsorgmaatreëls vir berging**

Berg by of benede 30 °C. Hou dig toe.

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Bêre in die oorspronklike verpakking en beskerm teen vog en lig.

Hou buite die bereik van kinders.

## **6.5 Aard en inhoud van houer**

**VILDAMET** filmbedekte tablette is beskikbaar in 'n Alu-Alu stolp pak van 10 tablette wat verpak word in 'n gedrukte karton grootte 3 x 10 saam met die voubiljet in die gedrukte karton.

## **6.6 Spesiale voorsorgmaatreëls vir weggooi en ander hantering**

Enige ongebruikte medisyne of afvalmateriaal moet weggegooi word volgens plaaslike vereistes.

## **7 Houer van sertifikaat van registrasie**

Innovata Pharmaceuticals (Pty) Ltd

Crownwood Office Park

100 Northern Parkway

Ormonde

Johannesburg

2091

Suid-Afrika

## **8 Registrasienommers**

VILDAMET 50/850: 59/21.2/0253

VILDAMET 50/1000: 59/21.2/0254

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## **9 Datum van eerste goedkeuring/Hernuwing van die goedkeuring**

TBI

## **10 Datum van revisie van die teks**

TBI