

Not to be sold by Retail without the prescription of a Registered Medical Practitioner

## Rx Sitagliptin Phosphate 50 mg & Metformin Hydrochloride 500 mg Tablets

### OMNISTA-M

#### WARNING: LACTIC ACIDOSIS

See full prescribing information for complete boxed warning.  
• Postmarketing cases of Metformin-associated lactic acidosis have resulted in death, hypothermia, hypotension, and resistant bradycardia. Symptoms included malaise, myalgia, respiratory distress, somnolence, and abdominal pain. Laboratory abnormalities included elevated blood lactate levels, anion gap acidosis, increased lactate/pyruvate ratio, and Metformin plasma levels generally >5 mg/mL.  
• Risk factors include renal impairment, concomitant use of certain drugs, age ≥65 years, old radiological studies with contrast, surgery and other procedures, hypoxic states, excessive alcohol intake, and hepatic impairment. Steps to reduce the risk of and manage Metformin-associated lactic acidosis in these high risk groups are provided in the Full Prescribing Information.  
• If lactic acidosis is suspected, discontinue Sitagliptin & Metformin Hydrochloride and institute general supportive care as a measure to support circulatory hemodynamics. A lactic acidosis response template is available at [www.omnista-m.com](http://www.omnista-m.com).

#### 1. Generic Name

Sitagliptin Phosphate 50 mg & Metformin Hydrochloride 500 mg Tablets

#### 2. Qualitative and quantitative composition

Sitagliptin Phosphate 50 mg & Metformin Hydrochloride 500 mg Tablets

Sitagliptin Phosphate Monohydrate IP 42.5mg

Equivalent to Sitagliptin 50 mg

Metformin Hydrochloride IP 500 mg

Colours: Fennel Odor USP-NF, Fennel Odor Black USP-NF & Titanium Dioxide IP

#### 3. Dosage form and strength

Oral dosage form (Tablets)  
Sitagliptin 50 mg & Metformin Hydrochloride 500 mg

#### 4. Clinical particulars

##### 4.1. Therapeutic indication

It is indicated as an adjunct to diet & exercise to improve glycaemic control in patients with type-2 diabetes mellitus. FX2 is indicated to improve glycaemic control with a PPIII agonist (e.g. a thiazolidinedione) as an adjunct to diet and exercise in patients inadequately controlled with metformin and a PPIII agonist. FX2 is also indicated as an adjunct to insulin (i.e. triple combination therapy) as an adjunct to diet and exercise to improve glycaemic control in patients inadequately controlled with insulin and metformin alone do not provide adequate control.

##### 4.2. Posology and method of administration

###### Recommended Dosage

Take Sitagliptin and Metformin Hydrochloride orally twice daily with meals.  
• Individualize the dosage of both Sitagliptin and Metformin Hydrochloride on the basis of the patient's current regimen, effectiveness, and tolerability.  
• The maximum recommended daily dose is 100 mg of Sitagliptin and 2000 mg of Metformin Hydrochloride.  
• Do not split or divide Sitagliptin and Metformin Hydrochloride tablets.  
• The recommended starting dose in patients not currently treated with 50 mg Sitagliptin and 500 mg Metformin Hydrochloride twice daily, with gradual titration to reduce gastrointestinal side effects associated with Metformin.  
• The starting dose in patients already treated with Metformin should be Sitagliptin dosed at 50 mg twice daily/100 mg total daily dose and the dose of Metformin already being taken. For patients taking Metformin Hydrochloride 850 mg tablets, the recommended starting dose of Sitagliptin and Metformin Hydrochloride is 50 mg Sitagliptin and 1000 mg Metformin Hydrochloride twice daily.

###### Recommendations for Use in Renal Impairment

• Sitagliptin and Metformin Hydrochloride tablets and Metformin Hydrochloride 500 mg tablets are contraindicated in patients with an estimated glomerular filtration rate (eGFR) below 30 mL/min/1.73 m<sup>2</sup>.  
• Sitagliptin and Metformin Hydrochloride is not recommended in patients with an eGFR between 30 and less than 45 mL/min/1.73 m<sup>2</sup> because these patients require a lower dosage of Sitagliptin than what is available in the fixed combination Sitagliptin and Metformin Hydrochloride product.  
• Discontinuation of Sitagliptin and Metformin Hydrochloride at the time of, or prior to, an indicated contrast imaging procedure in patients with an eGFR between 30 and 45 mL/min/1.73 m<sup>2</sup> in patients with a history of liver disease, alcoholism, or heart failure, or in patients who have administered a single iodinated contrast, should be avoided. eGFR 48 hours after the imaging procedure restart Sitagliptin and Metformin Hydrochloride if renal function is stable.

###### 4.3. Contraindications

Sitagliptin and Metformin Hydrochloride tablets is contraindicated in patients with:  
• Severe renal impairment (eGFR <30 mL/min/1.73 m<sup>2</sup>).  
• Acute or chronic treated with Sitagliptin and Metformin Hydrochloride.  
• History of severe hypersensitivity reaction to Sitagliptin and Metformin Hydrochloride tablets, or Sitagliptin, such as anaphylaxis or angioedema function in this population. Any dose adjustment should be based on a careful assessment of renal function.

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

There have been postmarketing cases of Metformin-associated lactic acidosis, including fatal cases. These cases had a subtle onset and were accompanied by nonspecific symptoms such as malaise, myalgia, abdominal pain, respiratory distress, or increased somnolence; however, hypothermia, hypotension and resistant bradycardia have occurred with severe acidosis. Metformin-associated lactic acidosis is characterized by elevated blood lactate concentrations (>5 mmol/L), anion gap acidosis (without evidence of ketonuria or ketonemia), and an increased lactate/pyruvate ratio. Metformin plasma levels were generally >5 mg/mL. Metformin-associated lactic acidosis is a rare but potentially fatal complication that may increase the risk of lactic acidosis, especially in patients at risk.

If Metformin-associated lactic acidosis is suspected, general supportive measures should be instituted promptly in a hospital setting, along with immediate discontinuation of Sitagliptin and Metformin Hydrochloride. In Sitagliptin and Metformin Hydrochloride treated patients with a diagnosis or strong suspicion of lactic acidosis, prompt hemodialysis is recommended to remove the acidosis and restore Metformin. Metformin Hydrochloride is dialyzable, with a clearance of up to 170 mL/min under good hemodynamic conditions. Hemodialysis has often resulted in reversal of symptoms and recovery.

Educate patients and their families about the symptoms of lactic acidosis, and if these symptoms occur instruct them to discontinue Sitagliptin and Metformin Hydrochloride tablets and contact their health care provider.  
For each of the known and possible risk factors for Metformin-associated lactic acidosis, recommendations to reduce the risk of and manage Metformin-associated lactic acidosis are provided below.

###### Renal Impairment

The postmarketing Metformin-associated lactic acidosis cases primarily occurred in patients with significant renal impairment. The risk of Metformin accumulation and Metformin-associated lactic acidosis increases with the severity of renal impairment because Metformin is substantially excreted by the kidney. Clinical recommendations based upon the patient's renal function include:  
• Before initiating Sitagliptin and Metformin Hydrochloride, obtain an estimated glomerular filtration rate (eGFR).  
• Sitagliptin and Metformin Hydrochloride is contraindicated in patients with an eGFR below 30 mL/min/1.73 m<sup>2</sup>.  
• Sitagliptin and Metformin Hydrochloride is not recommended in patients with an eGFR between 30 and less than 45 mL/min/1.73 m<sup>2</sup> because these patients require a lower dosage of Sitagliptin than what is available in the fixed combination Sitagliptin and Metformin Hydrochloride product.

• Obtain an eGFR at least annually in patients with an eGFR between 30 and 45 mL/min/1.73 m<sup>2</sup>.  
• In patients at increased risk for the development of renal impairment (i.e., the elderly), renal function should be assessed more frequently.

###### Drug Interactions

The concomitant use of Sitagliptin and Metformin Hydrochloride with specific drugs may increase the risk of Metformin-associated lactic acidosis, those that impair renal function, result in a significant hemodynamic change, interfere with acid-base balance or increase Metformin accumulation. Therefore, consider more frequent monitoring of patients.

###### Age 65 or Greater

The risk of Metformin-associated lactic acidosis increases with the patient's age because elderly patients have a greater renal function and/or having hepatic, renal, or cardiac impairment than younger patients. Assess renal function more frequently in elderly patients.

###### Radiological Studies with Contrast

Administration of iodinated contrast agents in Metformin-treated patients has led to an acute decrease in renal function and the occurrence of lactic acidosis. Stop Sitagliptin and Metformin Hydrochloride at the time of, or prior to, an indicated contrast imaging procedure in patients with an eGFR between 30 and 45 mL/min/1.73 m<sup>2</sup> in patients with a history of liver disease, alcoholism, or heart failure, or in patients who have administered a single iodinated contrast. Discontinue Sitagliptin and Metformin Hydrochloride at the time of, or prior to, an indicated contrast imaging procedure. Restart Sitagliptin and Metformin Hydrochloride if renal function is stable.

###### Surgery and Other Procedures

Withholding of food and/or during surgery and/or other procedures may increase the risk for volume depletion, hypotension and renal impairment. Sitagliptin and Metformin Hydrochloride should be temporarily discontinued while patients have reduced food and fluid intake.

###### Hypoxic States

Several of the postmarketing cases of Metformin-associated lactic acidosis occurred in the setting of acute congestive heart failure particularly when associated with a history of heart failure and a history of renal impairment. In addition, hypoxemia, infection, sepsis, and other conditions associated with hypoxemia have been associated with lactic acidosis and may also increase the risk of Metformin-associated lactic acidosis. Discontinue Sitagliptin and Metformin Hydrochloride tablets when patients are hypoxic and/or have other conditions associated with hypoxemia.

###### Excessive Alcohol Intake

Alcohol potentiated the effect of Metformin on lactate metabolism, and this may increase the risk of Metformin-associated lactic acidosis. Warn patients against excessive alcohol intake while receiving Sitagliptin and Metformin Hydrochloride tablets.

###### Hepatic Impairment

Patients with hepatic impairment have developed with cases of Metformin-associated lactic acidosis. This may be due to impaired lactate clearance resulting in higher lactate blood levels. Therefore, avoid use of Sitagliptin and Metformin Hydrochloride tablets in patients with clinical or laboratory evidence of hepatic failure.

###### Pancreatitis

There have been postmarketing reports of acute pancreatitis, including fatal and non-fatal hemorrhagic or necrotizing pancreatitis, in patients taking Sitagliptin and Metformin Hydrochloride tablets. In patients taking Sitagliptin and Metformin Hydrochloride tablets, patients should be observed carefully for signs and symptoms of pancreatitis. If pancreatitis is suspected, discontinue Sitagliptin and Metformin Hydrochloride tablets immediately. In patients with a history of pancreatitis, patients should be instructed. It is unknown whether patients with a history of pancreatitis are at increased risk for the development of pancreatitis while using Sitagliptin and Metformin Hydrochloride tablets.

###### Heart Failure

An association between the dipeptidyl-DPP-4 inhibitor treatment and heart failure has been observed in cardiovascular outcomes studies in patients with type 2 diabetes mellitus and at least moderate cardiovascular disease. This finding evaluated patients with type 2 diabetes mellitus and at least moderate cardiovascular disease. These results do not indicate whether the use of DPP-4 inhibitor class.

Consider the risks and benefits of Sitagliptin and Metformin Hydrochloride tablets prior to initiating treatment in patients at risk for heart failure, such as those with a history of heart failure and a history of renal impairment. In addition, patients at risk for signs and symptoms of heart failure during therapy. Advise patients that the characteristic symptoms of heart failure are increased shortness of breath, rapid weight gain, and swelling of the legs. Advise patients to contact their health care provider if they experience any of these symptoms. Advise patients to contact their health care provider if they experience any of these symptoms. Advise patients to contact their health care provider if they experience any of these symptoms.

###### Acute Renal Failure

There have been postmarketing reports of worsening renal function, including acute renal failure, sometimes requiring dialysis, before initiation of therapy with Sitagliptin and Metformin Hydrochloride tablets and at least annually thereafter. renal function should be assessed at least annually in patients with an eGFR between 30 and 45 mL/min/1.73 m<sup>2</sup>. In patients with an eGFR between 30 and 45 mL/min/1.73 m<sup>2</sup>, renal function should be assessed more frequently and Sitagliptin and Metformin Hydrochloride tablets discontinued if evidence of renal impairment is present. Sitagliptin and Metformin Hydrochloride is contraindicated in patients with severe renal impairment.

###### Vitamin B12 Deficiency

In a controlled clinical trial of Metformin 2000 mg twice daily, a decrease to subnormal levels of previously normal serum vitamin B12 levels was observed in approximately 7% of patients. Such decrease, possibly due to interference with B12 absorption, was observed in patients with an eGFR below 30 mL/min/1.73 m<sup>2</sup>. In patients with an eGFR between 30 and 45 mL/min/1.73 m<sup>2</sup>, consider the risks and benefits of Sitagliptin and Metformin Hydrochloride tablets and consider discontinuation of Metformin or vitamin B12 supplementation. Certain individuals who use inadequate vitamin B12 or calcium intake at baseline are at increased risk for developing vitamin B12 deficiency. Consider the risks and benefits of Sitagliptin and Metformin Hydrochloride tablets and consider discontinuation of Metformin or vitamin B12 supplementation. Consider the risks and benefits of Sitagliptin and Metformin Hydrochloride tablets and consider discontinuation of Metformin or vitamin B12 supplementation.

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#### Drugs Affecting Glycemic Control

**Clinical Impact:** Certain drugs tend to produce hypoglycemia and may lead to loss of glycemic control.  
**Insulin:** When drugs are administered to a patient receiving Sitagliptin and Metformin Hydrochloride tablets, observe the patient closely for signs of blood glucose control. When such drugs are withdrawn from a patient receiving Sitagliptin and Metformin Hydrochloride tablets, observe the patient closely for hyperglycemia.

**Examples:** Thiazides and other diuretics, corticosteroids, phenothiazines, thyroid products, estrogens, oral contraceptives, phenytoin, nicotinic acid, sympathomimetics, calcium channel blockers, and lithium.  
**4.6. Use in special populations (such as pregnant women, lactating women, paediatric patients, geriatric patients, etc.)**  
**Pregnancy:** The limited available data with Sitagliptin and Metformin Hydrochloride tablets in pregnant women are not sufficient to inform a drug associated with major birth defects and miscarriage. Published studies with Metformin use during pregnancy have not reported a clear association with Metformin and major birth defect or miscarriage risk. There are risks to the mother and fetus associated with poorly controlled diabetes in pregnancy. No adverse developmental effects were observed when Sitagliptin was administered to pregnant rats and rabbits during organogenesis at oral doses up to 30 times and 20 times, respectively, the 100 mg clinical dose based on AUC. No adverse developmental effects were observed when Metformin was administered to pregnant Sprague Dawley rats and rabbits during organogenesis at doses up to 2- and 4-times, respectively, a 2000 mg clinical dose, based on body surface area.

**Lactation:** The estimated background risk of major birth defects to 6-10% in women with pre-gestational diabetes with a Hemoglobin A1c < 7% and has been reported to be high at >20-25% in women with a Hemoglobin A1c > 10%.  
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**Paediatric Use:** The estimated background risk of major birth defects to 6-10% in women with pre-gestational diabetes with a Hemoglobin A1c < 7% and has been reported to be high at >20-25% in women with a Hemoglobin A1c > 10%.  
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**Geriatric Use:** The estimated background risk of major birth defects to 6-10% in women with pre-gestational diabetes with a Hemoglobin A1c < 7% and has been reported to be high at >20-25% in women with a Hemoglobin A1c > 10%.  
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