

VELMETIA® Film-Coated Tablets Antidiabetic

METFORMIN HCI

NAME AND STRENGTH OF ACTIVE INGREDIENTS

SITAGLIPTIN + METFORMIN HCI (VELMETIA) is available for oral administration Metformin hydrochloride as tablets containing 64.25 mg sitagliptin phosphate monohydrate equivalent to: 50 mg sitagliptin as free base and 500 mg metformin hydrochloride [SITAGLIPTIN + METEORMIN HCI (VELMETIA) 50 ma/500 ma] or 1 a metformin hydrochloride [SITAGLIPTIN + METFORMIN HCI (VELMETIA) 50 mg/1 g].

PRODUCT DESCRIPTION

SITAGLIPTIN + METEORMIN HCI (VELMETIA)

SITAGLIPTIN + METFORMIN HCI (VELMETIA) combines two antihyperglycemic agents with complementary mechanisms of action to improve glycemic control i patients with type 2 diabetes; sitagliptin phosphate, a dipeptidyl peptidase 4 (DPP-4) inhibitor, and metformin hydrochloride, a member of the biguanide class.

Sitaglintin phosphate

Sitagliptin phosphate is an orally-active, potent, and highly selective inhibitor of the dipeptidyl peptidase 4 (DPP-4) enzyme for the treatment of type 2 diabetes. The DPP-4 inhibitors are a class of agents that act as incretin enhancers. By inhibiting the DPP-4 enzyme, situation increases the levels of two known active incretin hormones, glucagon-like peptide-1 (GLP-1) and glucose-dependent insulinotropic polypeptide (GIP). The incretins are part of an endogenous system involved in the physiologic regulation of glucose homeostasis. When blood glucose concentrations are normal or elevated GLP-1 and GLP increase insulin synthesis and release from pancreatic beta cells. GLP-1 also lowers glucagon secretion from pancreatic cells, leading to reduced hepatic glucose production. This mechanism is unlike the mechanism seen with sulfonylureas; sulfonylureas cause insulin release even when glucose levels are low, which can lead to sulfonvlurea-induced hypoglycemia in natients with type 2 diabetes and in normal subjects. Sitaglintin is a potent and highly selective inhibitor of the enzyme DPP-4 and does not inhibit the closely-related enzymes DPP-8 or DPP-9 at therapeutic concentrations. Sitagliptin differs in chemical structure and pharmacological action from GLP-1 analogues. insulin, sulfonylureas or meglitinides, biguanides, peroxisome proliferator-activated receptor gamma (PPARy) agonists, alpha-glucosidase inhibitors, and amylin analogues.

Metformin hydrochloride

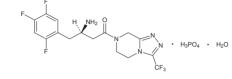
Metformin is an antihyperolycemic agent which improves glucose tolerance in patients with type 2 diabetes, lowering both basal and postprandial plasma plucose. Its pharmacologic mechanisms of action are different from other classes of oral antihyperglycemic agents. Metformin decreases hepatic glucose production. decreases intestinal absorption of glucose, and improves insulin sensitivity by increasing peripheral glucose uptake and utilization. Unlike sulfonylureas, metformin does not produce hypoglycemia in either patients with type 2 diabetes or normal subjects (except in special circumstances, see WARNINGS AND PRECAUTIONS. Metformin hydrochloride) and does not cause hyperinsulinemia. With metformin herapy, insulin secretion remains unchanged while fasting insulin levels and day-long plasma insulin response may actually decrease.

SITAGLIPTIN + METFORMIN HCI (VELMETIA) contains sitagliptin phosphate and metformin hydrochloride.

Sitagliptin phosphate

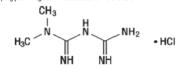
-alpyrazine phosphate (1:1) monohydrate.

WPC-MK0431A-T-062022 The empirical formula is C16H15F6N50+H3PO4+H2O and the molecular weight is 523.32. The structural formula is:



Sitagliptin phosphate monohydrate is a white to off-white, crystalline, ic powder. It is soluble in water and N.N-dimethyl formamide: slightly uble in methanol; very slightly soluble in ethanol, acetone, and acetonitrile; and soluble in isopropanol and isopropyl acetate

Metformin hydrochloride (N.N-dimethylimi nimidic diamide hydro is not chemically or pharmacologically related to any other classes of oral antihyperglycemic agents. The structural formula is as shown



Metformin hydrochloride is a white to off-white crystalline compound with a molecular formula of C₄H₄N₆+HCl and a molecular weight of 165.63. Metformin hydrochloride is freely soluble in water and is practically insoluble in acetone, ether he pK_a of metformin is 12.4. The pH of a 1 % aqueous solution o metformin hydrochloride is 6.68

PHARMACOKINETICS

SITAGLIPTIN + METFORMIN HCI (VELMETIA)

The results of a definitive bioequivalence study in health the SITAGLIPTIN + METFORMIN HCI (VELMETIA) 50 mg/500 mg and 50 mg/1 g bination tablets are bioequivalent to co-administration of corr of SITAGLIPTIN (JANUVIA®) and metformin hydrochloride as individual tablets.

Because bioequivalence is demonstrated at the lowest and highest combination tablet dose strengths available, bioequivalence is conferred to the (sitagliptin/metformin) 50 mg/850 mg fixed dose combination (FDC) tablet.

Sitagliptin phosphate

The absolute bioavailability of sitadintin is approximately 87 %. Co-administration f a high-fat meal with sitagliptin phosphate had no effect on the ph of sitagliptin

Metformin hydrochloride

The absolute bioavailability of a metformin hydrochloride 500 mg tablet given under fasting conditions is approximately 50-60%. Studies using single oral doses under rasing contains is approximately 50-007, situates using angle of a doses of metformin hydrocholoid tablets 500 mg to 1500 mg, and 850 mg to 2550 mg, indicate that there is a lack of dose proportionality with increasing doses, which is due to decreased absorption rather than an alternation in elimination. Food decreases the extent of and slightly delays the absorption of metformin, as shown Renal Impairment by approximately a 40% lower mean peak plasma concentration (Cmm), a 25% lower area under the plasma concentration versus time curve (ALIC) and a 35-minute rolongation of time to peak plasma concentration (T___) following administration of a single 850-mg tablet of metformin with food, compared to the same tablet strength administered fasting. The clinical relevance of these decreases is unknown.

Distribution

Sitagliptin phosphate

The mean volume of distribution at steady state following a single 100-mg hous dose of sitagliptin to healthy subjects is approximately 198 liters. The fraction of sitagliptin reversibly bound to plasma proteins is low (38%).

Metformin hvdrochloride

The apparent volume of distribution (V/F) of metformin following single oral doses of metformin hydrochloride tablets 850 mg averaged 654 \pm 358 L. Metformin is The chemical name of sitagliptin phosphale is 7-{(3/F)-3-amino-1-oxo-4 (2.4,5-trifluorophenyl)butyl]-5,6,7,8-tetrahydro-3-{trifluoromethyl)-1,2,4-triazolo[4,3 megigibily bound to plasma proteins, in contrast to sulforylureas, which are more than 90% protein bound. Metformin partitions into erythrocytes, most likely as AUC and C_{max} of sitagliptin increased approximately 21% and 13%, respectively, a function of time. At usual clinical doses and dosing schedules of metformin

within 24-48 hours and are generally < 1 mcg/mL. During controlled clinical trials of metformin, maximum metformin plasma levels did not exceed 5 mcg/mL, even at maximum doses.

Sitagliptin phosphate

Sitagliptin is primarily eliminated unchanged in urine, and metabolism is a minor pathway. Approximately 79% of sitagliptin is excreted unchanged in the urine.

Following a [14C]sitagliptin oral dose, approximately 16% of the radioactivity was excreted as metabolites of sitagliptin. Six metabolites were detected at trace levels and are not expected to contribute to the plasma DPP-4 inhibitory activity of sitaoliptin. In vitro studies indicated that the primary enzyme responsible for the

limited metabolism of sitaoliptin was CYP3A4 with contribution from CYP2C8 Metformin hydrochloride

Intravenous single-dose studies in normal subjects demonstrate that metformin is excreted unchanged in the urine and does not undergo hepatic metabolism (no metabolites have been identified in humans) nor biliary excretion.

Flimination

Sitagliptin phosphate Following administration of an oral [14C]sitagliptin dose to healthy subjects,

approximately 100% of the administered radioactivity was eliminated in feces (13%) or urine (87%) within one week of dosing. The apparent terminal t_{12} following a 100-mg oral dose of sitagliptin was approximately 12.4 hours and renal clearance was approximately 350 mL/min.

Elimination of sitagliptin occurs primarily via renal excretion and involves active tubular secretion. Sitagliptin is a substrate for human organic anion ransporter-3 (hOAT-3), which may be involved in the renal elimination of sitaoliptin e clinical relevance of hOAT-3 in sitagliptin transport has not been establishe The unit a relevance of non-relativistic in stagging transport many of the an induced relations and the stagging in the stagging in the stagging in the stagging of the stagging the renal elimination of sitagliptin. However, cyclosporine, a p-glycoprotein inhibitor, did not reduce the renal clearance of sitagliptin

Metformin hydrochloride

Renal clearance is approximately 3.5 times greater than creatinine clearance. which indicates that tubular secretion is the major route of metformin limination. Following oral administration approximately 90% of the absorbed nated via the renal route within the first 24 hours, with a plasma nination half-life of approximately 6.2 hours. In blood, the elimination half-lif is approximately 17.6 hours, suggesting that the erythrocyte mass may be a compartment of distribution

Characteristics in Patients

Type 2 Diabetes

Sitagliptin phosphate

The pharmacokinetics of sitagliptin in patients with type 2 diabetes are generally similar to those in healthy subjects. Metformin hvdrochloride

ce of normal renal function, there are no differences bet

multiple-dose pharmacokinetics of metformin between patients with type 2 diabetes and normal subjects, nor is there any accumulation of metformin in either group at usual clinical dose

Sitagliptin phosphate

An approximately 2-fold increase in the plasma AUC of sitagliptin was observed in patients with moderate renal impairment with eGFR of 30 to < 45 mL/min/1.73 m², and an approximately 4-fold increase was observed in patients with severe renal mpairment (eGER < 30 ml /min/1 73 m²) including patients with end-stage renal lisease (ESRD) on hemodialysis, as compared to subjects with normal rena

In patients with decreased renal function, the plasma and blood half-life of metformi is prolonged and the renal clearance is decreased (see CONTRAINDICATIONS and WARNINGS AND PRECAUTIONS). Henatic Impairment

Sitagliptin phosphate

compared to healthy matched controls following administration of a single 100-mg

hydrochloride tablets, steady state plasma concentrations of metformin are reached dose of sitagliptin phosphate. These differences are not considered to be clinically

meaningful. There is no clinical experience in patients with severe hepatic impairment In Phase III clinical studies of 18- and 24-week duration, treatment

(Child-Pugh score > 9). However, because sitagliptin is primarily renally eliminated. evere hepatic impairment is not expected to affect the pharmacokinetics of sitagliptin

Metformin hydrochloride

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

Gender Sitagliptin phosphate

Gender had no clinically meaningful effect on the pharmacokinetics of situalintin a composite analysis of Phase I and Phase II data.

Vetformin hvdrochloride Metformin pharmacokinetic parameters did not differ significantly between norma

subjects and patients with type 2 diabetes when analyzed according to gende Similarly, in controlled clinical studies in patients with type 2 diabetes, the ntihyperglycemic effect of metformin was o Elderlv

Sitagliptin phosphate

Pediatric

Age did not have a clinically meaningful impact on the pharmacokinetics of itagliptin based on a population pharmacokinetic analysis of Phase I and Phase I data. Elderly subjects (65 to 80 years) had approximately 19% higher plasma ompared to vounger subjects. Metformin hydrochloride

were investigated in pediatric patients (10 to 17 years of age) with type 2 diabeter

In this population the dose-adjusted ALIC of sitadjintin in plasma was

100 mg dose. This is not considered to be a clinically meaningful difference base on the flat PK/PD relationship between the dose of 50 mg and 100 mg in adults.

No studies with sitagliptin have been performed in pediatric patients < 10 years

nately 18% lower compared to adult patients with type 2 diabetes for

of the drug are glucose dependent. Effects on blood pressure

to sitagliptin 100 mg once daily.

I imited data from controlled pharmacokinetic studies of metformin in healthy elderly subjects suggest that total plasma clearance of metformin is decreased, the half-life is prolonged, and C_{max} is increased, compared to healthy young subjects. From these data, it appears that the change in metformin pharmacokinetics with aging is primarily accounted for by a change in renal function (see GLUCOPHAGE¹ ribing information: CLINICAL PHARMACOLOGY. Special Population

The pharmacokinetics of sitagliptin (single dose of 50 mg, 100 mg or 200 mg) Cardiac Electrophysiology

In a randomized, placebo-controlled crossover study, 79 healthy subject were administered a single oral dose of sitagliptin 100 mg, sitagliptin 800 mg (8 times the recommended dose), and placebo. At the recommended dose of 100 mg, there was no effect on the QTc interval obtained at the peak plasma concentration, or at any other time during the study. Following the 800-mg dose. e maximum increase in the placebo-c orrected mean change in QTc from b at 3 hours postdose was 8.0 msec. This small increase was not considered to be clinically significant. At the 800-mg dose, peak sitagliptin plasma concentrations vere approximately 11 times higher than the peak concentrations following a 100-mg dose.

INDICATIONS

SITAGLIPTIN + METFORMIN HCI (VELMETIA) is indicated as initial therapy in patients with type 2 diabetes mellitus to improve glycemic control when diet and may require lower sulfonvlurea doses to reduce the risk of sulfonvlurea-induced ercise do not provide adequate alvcemic control poglycemia (see WARNINGS AND PRECAUTIONS) CONTRAINDICATIONS and WARNINGS AND PRECAUTIONS. Metformin SITAGI IPTIN + METFORMIN HCI (VELMETIA) is indicated as an adjunct to die hydrochloride, Lactic acidosis) For patients inadequately controlled on dual combination therapy with any two of the and exercise to improve glycemic control in patients with type 2 diabetes mellitus Idwing three antihyperglycemic gents: sitagliptin, metformin or insulin: he usual starting dose of SITAGLIPTIN + METFORMIN HCI (VELMETIA) Before initiation of therapy with SITAGLIPTIN + METEORMIN HCI (VELMETIA) and at least annually threather, renal function should be assessed. In patients in whom development of renal dysfunction is anticipated, renal function should be assessed more frequently and SITAGLIPTIN + METFORMIN HCI (VELMETIA) adequately controlled on metformin or sitagliptin alone or in patients already being d with the combination of sitagliptin and metformin. should provide sitagliptin dosed as 50 mg twice daily (100 mg total daily dose). In determining the starting dose of the metformin component, the national's level SITAGLIPTIN + METFORMIN HCI (VELMETIA) is indicated as part of triple f glycemic control and current dose (if any) of metformin should be considered discontinued if evidence of renal impairment is present. combination therapy with a sulfonvlurea as an adjunct to diet and exercise in a greatual dose escalation to reduce the gastrointestrial (GI) side effects associated with metformin should be considered. Patients currently on or initiating insulin with other antihyperglycemic agents, hypoglycemia has been observed abients with type 2 diabetes mellitus inadequately controlled with any two of he three agents: metformin, sitagliptin, or a sulfonylurea. Will other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotinic agents, hypogyrotinia has been observed with other a multiple gyrotini No studies have been performed specifically examining the safety and efficacy of SITAGLIPTIN + METFORMIN HCI (VELMETIA) in patients previously treated with other oral antihyperglycemic agents and switched to SITAGLIPTIN + Stagliptin phosphate of sulfonylurea- or insulin-induced hypoglycemia, a lower dose of sulfonylurea or insulin may be considered (see RECOMMENDED DOSE).

SITAGLIPTIN + METEORMIN HCI (VELMETIA) is indicated as part of triple combination therapy with a PPARy acconist (i.e., thiazolidinediones) as an adjunc to diet and exercise in patients with type 2 diabetes mellitus inadequately controlled ncrease in circulating levels of active GLP-1 and GIP, increased plasma levels with any two of the three agents: metformin, sitagliptin, or a PPARy agonist. SITAGLIPTIN + METEORMIN HCI (VELMETIA) is indicated in patients s mellitus as an adjunct to diet and exercise to improve glycemi control in combination with insulin.

of Merck KGaA of Darmstadt, Germany. Licensed to Bristol-Meyers Squibb Company

Sitaoliptin phosphate Race had no clinically meaningful effect on the pharmacokinetics of sitagliptin based on a composite analysis of Phase I pharmacokinetic data and on a population pharmacokinetic analysis of Phase I and Phase II data, including subjects of white, Hispanic, black, Asian, and other racial groups

Metformin hvdrochloride No studies of metformin pharmacokinetic parameters according to race have been

antihyperglycemic effect was comparable in whites (n=249), blacks (n=51), and Hispanics (n=24

Body Mass Index (BMI) Sitagliptin phosphate

Body mass index (BMI) had no clinically meaninoful effect on the pharmacokinetic sitagliptin based on a composite analysis of Phase I pharmacokinetic data and or population pharmacokinetic analysis of Phase I and Phase II data.

HARMACODYNAMICS

Sitagliptin phosphate General

n patients with type 2 diabetes, administration of single oral doses of sitagliptin lear to inhibition of DPP-4 enzyme activity for a 24-hour period, resulting in a 2- to 3-fold

¹ GLUCOPHAGE® is a registered trademark of Merck Sante S.A.S, an associate

insulin and C-peptide, decreased glucagon concentrations, reduced fasting

glucose, and reduced glucose excursion following an oral glucose load or a meal.

with sitagliptin 100 mg daily in patients with type 2 diabetes significantly improver beta cell function, as assessed by several markers, including HOMA-β (Homeostasis Model Assessment-B), proinsulin to insulin ratio, and measures of beta cell esponsiveness from the frequently-sampled meal tolerance test. In Phase I studies, sitagliptin 50 mg twice daily provided similar glycemic efficacy compared

In a randomized, placebo-controlled, double-blind, double-dummy, four-period crossover two-day study in healthy adult subjects, the effects on post-meal plasma concentrations of active and total GLP-1 and glucose after co-administration of sitaoliptin and metformin were compared with those after administration of is stagliptin and menormin where compared with uncertaintiat and no stagliptin alone, metformin alone or placebo, each administered for two days. The incremental 4-hour post-meal weighted mean active GLP-1 concentrations vere increased approximately 2-fold after either administration of sitagliptin alone or atformin alone compared with placebo. The effect on active GLP.1 concentration fter co-administration of sitagliptin and metformin were additive, with active GLP-1 concentrations increased by approximately 4-fold compared with placebo. itagliptin alone increased only active GLP-1 concentrations, reflecting inhibition of whereas metformin alone increased active and total GLP-1 concern to a similar extent. These data are consistent with different mechanisms for the

ease in active GLP-1 concentrations. Results from the study also demonstrated hat sitagliptin, but not metformin, enhances active GIP concentrations. In studies with healthy subjects, sitagliptin did not lower blood glucose or cause hypoglycemia, suggesting that the insulinotropic and glucagon suppressive actions

In a randomized, placebo-controlled crossover study in hypertensive patients in a tardonimez photoe or transfer of the second of the se and diuretics), co-administration with sitagliptin was generally well tolerated. In these patients, sitagliptin had a modest blood pressure lowering effect; 100 mg per day of sitagliptin reduced 24-hour mean ambulatory systolic blood pressure by approximately 2 mmHq, as compared to placebo. Reductions have not been served in subjects with normal blood pressure

In patients with type 2 diabetes administered sitadliptin 100 mg (N=81) or sitaoliptin 200 mg (N=63) daily, there were no meaningful changes in QTc interval ased on ECG data obtained at the time of expected peak plasma concentration

RECOMMENDED DOSE

ne of antihynemlycemic therapy with SITAGLIPTIN + METEORMIN HCL VFI MFTIA) should be indi effectiveness, and tolerability while not exceeding the maximum recommended daily dose of 100 mg sitagliptin SITAGLIPTIN + METFORMIN HCI (VELMETIA) should generally be given

wice daily with meals, with gradual dose escalation, to reduce the ga (GI) side effects associated with metformin Dosing Recommendation

e starting dose of SITAGLIPTIN + METFORMIN HCI (VELMETIA) should be based on the patient's current regimen SITAGLIPTIN + METFORMIN HCI (VELMETIA) should be given twice daily

with meals. The following doses are available: 50 mg sitaglintin/500 mg metformin hydrochloride

50 mg sitagliptin/1 g metformin hydrochloride

As initial therapy

For patients with type 2 diabetes mellitus, whose hyperglycemia is inadequately controlled with diet and exercise alone, the recommended starting dose of SITAGLIPTIN + METFORMIN HCI (VELMETIA) is 50 mg sitagliptin/500 mg metformin hydrochloride twice daily. Patients may be titrated up to 50 r agliptin/1 g metformin hydrochloride twice daily.

patients inadequately controlled on metformin mon

For patients not adequately controlled on metformin alone, the usual starting dose of SITAGLIPTIN + METFORMIN HCI (VELMETIA) should provide sitagliptin dosed as 50 mg twice daily (100 mg total daily dose) plus the dose of metformin already

For patients inadequately controlled on situation monotherar

For patients inadequately controlled on sitagliptin alone, the usual starting dose of SITAGLIPTIN + METFORMIN HCI (VELMETIA) is 50 mg sitagliptin/500 mg metformin hydrochloride twice daily. Patients may be titrated up to 50 mc sitaoliptin/1 a metformin hydrochloride twice daily. Patients taking sitaolip monotherapy dose-adjusted for renal impairment should not be switched SITAGLIPTIN + METFORMIN HCI (VELMETIA) (see CONTRAINDICATIONS). For patients inadequately controlled on dual combination therapy with any two of the

Ilowing three antihyperglycemic agents: sitagliptin, metformin or a PPARy agonist he usual starting dose of SITAGLIPTIN + METFORMIN HCI (VELMETIA)

should provide sitagliptin dosed as 50 mg twice daily (100 mg total daily dose). In determining the starting dose of the metformin component, the patient's level of glycemic control and current dose (if any) of metformin should be considered radual dose escalation to reduce the gastrointestinal (GI) side effects associated with metformin should be considered

For patients switching from sitaglintin co-administered with metform For patients switching from co-administration of sitagliptin and metformin, SITAGLIPTIN + METFORMIN HCI (VELMETIA) may be initiated at the dose of sitaoliptin and metformin already being taken.

or natients inadequately controlled on dual combination therapy with any two of the lowing three antihyperglycemic agents: sitagliptin, metformin or a sulfonylurea: ie usual starting dose of SITAGLIPTIN + METFORMIN HCI (VELMETIA) should provide sitagliptin dosed as 50 mg twice daily (100 mg total daily dose) In determining the starting dose of the metformin component, the patient's level In determining the stating does on medicinin relation in producting the gradient a key of glycemic control and current dose (if any) of metformin should be considered. Gradual dose escalation to reduce the gastrointestinal (GI) side effects associated with metformin should be considered. Patients currently on or initiating a sulforylurea.

METFORMIN HCI (VELMETIA). Any change in therapy of type 2 diabetes should be undertaken with care and appropriate monitoring as changes in glycemic control commendations for use in renal impairment: sess renal function prior to initiation of SITAGLIPTIN + METFORMIN HCI

VELMETIA) and periodically thereafter. SITAGLIPTIN + METFORMIN HCI (VELMETIA) is contraindicated in patients

with an estimated glomerular filtration rate (eGFR) < 30 mL/min/1.73 m² TAGLIPTIN + METEORMIN HCI (VEI METIA

+ METEORMIN HCI (VELMETIA) is not recommended in nation ith an eGFR \ge 30 mL/min/1.73 m² and < 45 mL/min/1.73 m² because these patients require a lower dosage of sitagliptin than what is available in the fixed combination SITAGLIPTIN + METFORMIN HCI (VELMETIA) product.

continuation for iodinated contrast imaging procedures: continue SITAGLIPTIN + METFORMIN HCI (VELMETIA) at the time of, or or to, an iodinated contrast imaging procedure in patients with an eGFR \geq 30 to 0 mL/min/1.73 m²; in patients with a history of liver disease, alcoholism or heart failure: or in patients who will be administered intra-arterial iodinated contrast. Re-evaluate eGFR 48 hours after the imaging procedure: restart SITAGLIPTIN METFORMIN HCI (VELMETIA) if renal function is acceptable (see WARNINGS AND PRECAUTIONS).

MODE OF ADMINISTRATION

SITAGI IPTIN + METFORMIN HCI (VELMETIA) is available for oral administration as tablets. It should generally be given twice daily with meals.

CONTRAINDICATIONS

SITAGLIPTIN + METFORMIN HCI (VELMETIA) is contraindicated in patients with: Severe renal impairment, (eGFR < 30 mL/min/1.73 m²) (see

WARNINGS AND PRECAUTIONS, Monitoring of renal function

- other component of SITAGLIPTIN + METFORMIN HC or any other component of SITAGLIPTIN + METFO (VELMETIA) (see WARNINGS AND PRECAUTIONS, phosphate, Hypersensitivity Reactions and UNDESIRABLE EFFECTS, narketing Experience
- Acute or chronic metabolic acidosis, including diabetic ketoacidosis SITACI IPTIN + METEORMIN HCI (VEI METIA) should be temporarily discontinued

n patients undergoing radiologic studies involving intravascular administration of odinated contrast materials, because the use of such products may result in acute levels > 5 ug/mL are generally found. alteration of renal function (see WARNINGS AND PRECAUTIONS: Metformi

ARNINGS AND PRECAUTIONS

SITAGLIPTIN + METEORMIN HCI (VELMETIA)

SITAGI IPTIN + METFORMIN HCI (VELMETIA) should not be used in patients with type 1 diabetes or for the treatment of diabetic ketoacidosis

Pancreatitis: There have been reports of acute pancreatitis, including fatal and non-fatal hemorrhagic or necrotizing pancreatitis (see UNDESIRABLE EFFECTS), in patients taking sitagliptin. Patients should be informed of the characteristic In parents taking stagpoint - attempts should severe abdominal pain. Resolution of pancreatitis has been observed after discontinuation of sitagliptin. If pancreatitis is suspected, SITAGLIPTIN + METFORMIN HCI (VELMETIA) and other potentially suspect medicinal products should be discontinued.

excreted by the kidney. The risk of metformin accumulation and lactic acidos increases with the degree of impairment of renal function. STRGLIPTIN + METFORMIN HCI (VELMETIA) is contraindicated in severe renal impairment, patients with an eGFR < 30 mL/min/1.73 m² (see **RECOMMENDED DOSE**,

Hypoglycemia in Combination with a Sulfonyturea or with Insulin: In clinical trials of therapy, are unlikely to be drug related. Later occurrence of gastrointestinal In these patients, routine serum Vitamin Br₂ neasurements at two- to three-year

to cause hypoglycemia (i.e., metformin or a PPARy agonist (thiazolidinedione), Levels of fasting venous plasma lactate above the upper limit of normal but less a sulfonvlurea (see UNDESIRABLE EFFECTS). Therefore, to reduce the risk sample handling. sulfonylurea- or insulin-induced hypoglycemia, a lower dose of sulfonylurea or sulin may be considered (see **RECOMMENDED DOSE**).

lypersensitivity Reactions: There have been postmarketing reports of erious hypersensitivity reactions in patients treated with sitagliptin, one of the omponents of SITAGLIPTIN + METFORMIN HCI (VELMETIA). These reactions components of ontroller in the mich of mich of mich of the provided in the mich of the components of ontroller in the mich of the mich of the component of the eir frequency or establish a causal relationship to drug exposure. Onset o these reactions occurred within the first 3 months after initiation of treatment with sitagliptin, with some reports occurring after the first dose. If a hypersensitivity reaction is suspected, discontinue SITAGLIPTIN + METFORMIN HCI (VELMETIA). esses for other notential causes for the event and institute alternation diabetes. (See CONTRAINDICATIONS and UNDESIRABLE EFFECTS, Postmarketing Experience.

Bullous Pemphiaoid: Postmarketing cases of bullous pemphiaoid requiring hospitalization have been reported with DPP-4 inhibitor use. In reported cases, Indeplatation have been reported with or 1 + minoto use. In reported cases, adjents typically recovered with topical or systemic immunosuppressive treatment and discontinuation of the DPP-4 inhibitor. Tell patients to report development of bitsers or erosions while receiving STR4LIPTIN + METFORMIN HCI (VELMETIA). If bullous pemphigoid is suspected. STAGLIPTIN + METFORMIN HCI (VELMETIA). should be discontinued and referral to a dermatologist should be considered for diagnosis and appropriate treatment

Metformin hydrochloride

Lactic Acidosis: Lactic acidosis is a rare, but serious, metabolic complication that an occur due to metformin accumulation during treatment with SITAGLIPTIN + /IETFORMIN HCI (VELMETIA); when it occurs, it is fatal in approximately 50% of cases. Lactic acidosis may also occur in association with a number of pathophysiologic conditions, including diabetes mellitus, and whenever there is ignificant issue hypopertusion and hypoxemia. Lactic acidosis is characterize y elevated blood lactate levels (> 5 mmol/L), decreased blood pH, electrolyt listurbances with an increased anion gap, and an increased lactate/pyruvate ratio. When metformin is implicated as the cause of lactic acidosis, metformin plasma with an eGFR \geq 30 to < 60 mL/min/1.73 m², in patients with a history of hepatic

The reported incidence of lactic acidosis in patients receiving metformin hydrochloride is very low (approximately 0.03 cases/1000 patient-years, with approximately 0.015 fatal cases/1000 patient-years). In more than 20,000 patient-years exposure to metformin in clinical trials, there were no reports of lactic acidosis. Reported cases have occurred primarily in diabetic patients with significant renal insufficiency, including both intrinsic renal disease and Hypoxic states: Cardiovascular collapse (shock) from whatever cause, acute renal hypoperfusion, often in the setting of multiple cond the setting of multiple concomitant medical/surgica mitant medications (see **RECOMMENDED DOSE** oblems and multiple on imendations for use in renal impairment). Patients with congestive heart ailure requiring pharmacologic management, in particular those with unstable or acute congestive heart failure who are at risk of hypoperfusion and hypoxemia, are acute congestive inear ratio are at task of hypotentias and hypotentia, are at increases with the star increases with the Surgical procedures: Use of SITAGLIPTIN + METFORMIN HCI (VELMETIA) should an increase has on actic aboots in the fact on actic actions increases with the degree of read dystunction and the patient's age. The risk of lactic acticoss may, therefore, be significantly decreased by regular monitoring of renal function in patients taking metformin and by use of the minimum effective dose of metformin. In particular, treatment of th elderly should be accompanied by careful monitoring of acceptable (see RECOMMENDED DOSE). renal function (see USE IN THE ELDERLY, Metformin hydrochloride). In addition metformin should be promptly withheld in the presence of any condition associated th hypoxemia, dehydration, or sepsis. Because impaired hepatic function may significantly limit the ability to clear lactate, metformin should generally be avoided in antients with chinical or laboratory evidence of henotic disease Patients should Impaired henotic function: Since impaired henotic function has been associated e cautioned against excessive alcohol intake, either acute or chronic, when taking metformin, since alcohol potentiates the effects of metformin hydrochloride on lactate metabolism. In addition, metformin should be temporarily discontinued prior hepatic disease. o any intravascular radiocontrast study and for any surgical procedure.

The onset of lactic acidosis often is subtle, and accompanied only by nonspecific symptoms such as malaise, myalgias, respiratory distress, increasing somnolence. and nonspecific abdominal distress. There may be associated hypothermia hypotension, and resistant bradyarrhythmias with more marked acidosis. The factor complex, is, however, very rarely associated with anemia and appears to be patient and the patient's physician must be aware of the possible importance of such symptoms and the national should be instructed to notify the physician immediately. if they occur. Metformin should be withdrawn until the situation is clarified. Serun electrolytes, ketones, blood glucose, and if indicated, blood pH, lactate levels, and even blood metformin levels may be useful. Once a patient is stabilized on any dose Certain individuals (those with inadequate Vitamin B₁₂ or calcium intake or vel of metformin, gastrointestinal symptoms, which are common during initiation symptoms could be due to lactic acidosis or other serious disease

taking placebo. As typical with other antihyperglycemic agents, hypoglycemia has been observed when sitaoliotin was used in combination with insulin or controlled diabetes or obesity, vigorous physical activity, or technical problems in

> Lactic acidosis should be suspected in any diabetic patient with metabolic acidosis lacking evidence of ketoacidosis (ketonuria and ketonemia).

Lactic acidosis is a medical emergency that must be treated in a hospital setting. In a patient with lactic acidosis who is taking metformin, the drug should be discontinued immediately and general supportive measures promptly instituted. Because metformin hydrochloride is dialyzable (with a clearance of up to 170 mL/min under good hemodynamic conditions), prompt hemodialysis is recommended to correct the acidosis and remove the accumulated metformin. Such management often re CONTRAINDICATIONS). en results in prompt reversal of symptoms and recovery (see

Hypoglycemia: Hypoglycemia does not occur in patients receiving metformin alone under usual circumstances of use, but could occur when caloris intake is deficient, when strenuous exercise is not compensated by caloric supplementation, or during concomitant use with other glucose-lowering agents (such as sulfonvlureas and insulin) or ethanol. Elderly debilitated or malnourished patients and those with adrenal or pituitary insufficiency or alcohol intoxication are particularly susceptible to hypoglycemic effects. Hypoglycemia may be difficult to recognize in the elderly, and in people who are taking β-adrenergic blocking drugs.

Use of concomitant medications that may affect renal function or metformin disposition: Concomitant medication(s) that may affect renal function or result in significant hemodynamic change or may interfere with the disposition of metformin, such as cationic drugs that are eliminated by renal tubular secretion Bellonnini, Such as caucine urugs in a coordinate of the set of th should be used with caution

(for example, intravenous urogram, intravenous cholangiography, angiography, and computed tomography (CT) scans with intravascular contrast materials): avascular contrast studies with iodinated materials can lead to acute alteration of renal function and have been associated with lactic acidosis in patients receiving metformin (see CONTRAINDICATIONS) Therefore in natients impairment, alcoholism, or heart failure, or in patients who will be administered intra-arterial indinated contrast SITAGLIPTIN + METEORMIN HCI (VELMETIA) should be temporarily discontinued at the time of or prior to the procedure, and withheld for 48 hours subsequent to the procedure and reinstituted only after renal function has been re-evaluated and found to be acceptable (see RECOMMENDED DOSE)

congestive heart failure, acute myocardial infarction and other conditions characterized by hypoxemia have been associated with lactic acidosis and may also cause prerenal azoternia. When such events occur in patients on SITACLIPTIN + METFORMIN HCI (VELMETIA) therapy, the drug should be promptly discontinued.

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

Alcohol intake: Alcohol is known to potentiate the effect of metformin on lactate metabolism. Patients, therefore, should be warned against excessive alcohol intake, acute or chronic, while receiving SITAGLIPTIN + METFORMIN HCI (VELMETIA).

with some cases of lactic acidosis SITAGLIPTIN + METEORMIN HCI (VELMETI should generally be avoided in patients with clinical or laboratory evidence of

Vitamin B₁₂ levels: In controlled clinical trials of metformin of 29 weeks duration. vitamin by levels, in control levels of previously normal serum Vitamin By, levels, a decrease to subnormal levels of previously normal serum Vitamin By, levels, without clinical manifestations, was observed in approximately 7% of patients. Such decrease, possibly due to interference with B12 absorption from the B12-intrinsic rapidly reversible with discontinuation of metformin or Vitamin B₁₂ supplementation. Measurement of hematologic parameters on an annual basis is advised in patients on SITAGLIPTIN + METFORMIN HCI (VELMETIA) and any apparent abnormalities should be appropriately investigated and managed.

absorption) appear to be predisposed to developing subnormal Vitamin B₁₂ levels.

Change in clinical status of patients with previously controlled type 2 diabetes: A patient with type 2 diabetes previously well controlled on SITAGLIPTIN + METFORMIN HCI (VELMETIA) who develops laboratory abnormalities or clinical illness (especially vague and poorly defined illness) should be evaluated promptly for evidence of ketoacidosis or lactic acidosis. Evaluation should include serui In evidence of reliadators of native actions. Evaluation should include seruin electrolytes and ketones, blood glucose and, if indicated, blood pH, lactate, pyruvate, and metformin levels. If acidosis of either form occurs, SITAGLIPTIN + METFORMIN HCI (VELMETIA) must be stopped immediately and other appropriate

corrective measures initiated. Loss of control of blood glucose: When a patient stabilized on any diabetic regimen is exposed to stress such as fever, trauma, infection, or surgery, a temporar loss of glycemic control may occur. At such times, it may be necessary to withhold STRGLIPTIN + METFORMIN HCI (VELMETIA) and temporarily administer insulin. STRGLIPTIN + METFORMIN HCI (VELMETIA) may be reinstituted after the acute episode is resolved.

NTERACTIONS WITH OTHER MEDICAMENTS

Sitagliptin and metforming Co-administration of multiple doses of sitadlintin (50 mg hid) and metformin (1000 mg b.i.d.) did not meaningfully after the pharmacokinetics of either sitagliphi or metformin in patients with type 2 diabetes.

Pharmacokinetic drug interaction studies with SITAGLIPTIN + METFORMIN (VELMETIA), sitagliptin and metforming

Sitagliptin phosphate

In drug interaction studies, sitagliptin did not have clinically meaningful effects on the pharmacokinetics of the following: metformin, rosiglitazone, glyburide, simvastatin, warfarin, and oral contraceptives. Based on these data, sitagliptin does not inhibit Radiologic studies involving the use of intravascular iodinated contrast materials expected to inhibit CYP2D6, 1A2, 2C19 or 2B6 or to induce CYP3A4.

> Population pharmacokinetic analyses have been conducted in patients with type 2 diabetes. Concomitant medications did not have a clinically meaningful effect on sitagliptin pharmacokinetics. Medications assessed were those that are commonly administered to patients with type 2 diabetes including cholesterol-lowering agents (e.g., statins, fibrates, ezetimibe), anti-platelet agents (e.g., clopidogril), antitypertensives (e.g., Actinis, indiares, ezenimice), anti-platient receptor blockers, beta-blockers, calcium channel blockers, hydrochlorothiazide), analgesics and non-steroidal anti-inflammatory agents (e.g., naproxen, diclofenac, celecoxib), anti-depressants (e.g., bupropion, fluoxetine, sertraline), antihistamines (e.g., cetirizine), proton-pump inhibitors (e.g., omeprazole, lansoprazole), and medications for erectile dysfunction (e.g., sildenafil)

> There was a slight increase in the area under the curve (ALIC 11 %) and mean peak drug concentration (Cmax, 18%) of digoxin with the co-administration of sitagliptin. These increases are not considered to be clinically meaningful Batients receiving digoxin should be monitored appropriately. The AUC and C_{max} of stagliptin were increased approximately 29% and 68%, respectively, in subjects with co-administration of a single 100-mg oral dose of SITAGLIPTIN (JANUVIA®) and a single 600-mg oral dose of cyclosporine, a potent probe inhibito f p-glycoprotein. The observed changes in sitagliptin pharmacokinetics are no considered likely to be clinically meaningful.

Metformin hydrochloride

either metformin pharmacokinetics or pharmacodynamics. Decreases in glyburide AUC and C____ were observed, but were highly variable. The single-dose nature of this study and the lack of correlation between glyburide blood levels and pharmacodynamic effects make the clinical significance of this interaction uncertain.

Eurosemide: A single-dose, metformin-furosemide drug interaction study in healthy subjects demonstrated that pharmacokinetic parameters of both compounds were affected by co-administration. Eurosemide increased the metformin plasm and blood C_{max} by 22% and blood AUC by 15%, without any significant change in metformin renal clearance. When administered with metformin, the Cmax and AUC of furosemide were 31% and 12% smaller, respectively, than when admir alone, and the terminal half-life was decreased by 32%, without any significant change in furosemide renal clearance. No information is available about the interaction of metformin and furosemide when co-administered chronically

Nifedipine: A single-dose, metformin-nifedipine drug interaction study in normal healthy volunteers demonstrated that co-administration of nifedipine increased plasma metformin $C_{\rm max}$ and AUC by 20% and 9%, respectively, and increased the amount excreted in the urine. Tmax and half-life were unaffected. Nifedipine appears to enhance the absorption of metformin. Metformin had minimal effects

HCI (VELMETIA) have not been performed; however, such studies have been conducted with the individual components of SITAGLIPTIN + METFORMIN HCL

Glyburide: In a single-dose interaction study in type 2 diabetes patients. tion of metformin and glyburide did not result in any changes in

ommon renal tubular transport systems involved in the renal elimination effects was comparable to that observed in adults f metformin (e.g., organic cationic transporter-2 [OCT2] / multidrug and toxin extrusion [MATE] inhibitors such as ranolazine, vandetanib, dolutegravir, and dine) could increase systemic exposure to metformin and may increase the risk for lactic acidosis. Consider the benefits and risks of concomitant use.

Other: Certain drugs tend to produce hyperolycemia and may lead to loss of alvcemic control. These drugs include the thiazides and other diuretics. corticosteroids, phenothiazines, thyroid products, estrogens, oral contraceptives. henytoin, nicotinic acid, sympathomimetics, calcium channel blocking drugs, and oniazid. When such drugs are administered to a patient receiving SITAGLIPTIN + METFORMIN HCI (VELMETIA) the patient should be closely observed to maintain adequate glycemic control.

In healthy volunteers the pharmacokinetics of metformin and propranolol and of Renal Euroction netformin and ibuprofen were not affected when co-administered in single-dose Sitagliptin phosphate interaction studies.

Metformin is negligibly bound to plasma proteins and is, therefore, less likely were comparable to those seen in younger patients (< 65 years). to interact with highly protein-bound drugs such as salicylates, sulfonamides, nloramphenicol, and probenecid, as compared to the sulfonylureas, which are extensively bound to serum proteins

REGNANCY AND LACTATION

SITAGLIPTIN + METEORMIN HCI (VELMETIA)

here are no adequate and well-controlled studies in pregnant women with SITAGLIPTIN + METEORMIN HCL (VELMETIA) or its individual components: erefore, the safety of SITAGLIPTIN + METFORMIN HCI (VELMETIA) in pregnar women is not known. SITAGLIPTIN + METFORMIN HCI (VELMETIA), like other ral antihyperglycemic agents, is not recommended for use in pregnancy.

No animal studies have been conducted with the combined products in SITAGLIPTIN + METEORMIN HCI (VELMETIA) to evaluate effects on reproduction The following data are based on findings in studies performed with sitagliptin or metformin individually

Sitagliptin phosphate

Sitagliptin was not teratogenic in rats at oral doses up to 250 mg/kg or in rabbits ven up to 125 mg/kg during organogenesis (up to 32 and 22 times, respectively, he human exposure based on the recommended daily adult human dose of 100 mg/day). In rats, a slight increase in the incidence of fetal rib malformation (absent, hypoplastic and wavy ribs) was observed at oral doses of 1000 mg/kg/day approximately 100 times the human exposure based on the recommended daily dult human dose of 100 mg/day). Slight decreases in mean preweaning body weights of both sexes and postweaning body weight gains of males were observed n the offspring of rats given oral dose of 1000 mg/kg/day. However, animal reproduction studies are not always predictive of the human response.

Metformin hvdrochloride

Metformin was not teratogenic in rats and rabbits at doses up to 600 mg/kg/dat This represents an exposure of about 2 and 6 times the maximum recommende numan daily dose of 2000 mg based on body surface area comparisons for rats and rabbits, respectively. Determination of fetal concentrations demonstrated a partial placental barrier to metformin

Nursing mothers

No studies in lactating animals have been conducted with the combined components of SITAGLIPTIN + METFORMIN HCI (VELMETIA). In studie performed with the individual components, both sitadliptin and metformin are ecreted in the milk of lactating rats. It is not known whether sitagliptin is excreted i human milk. Therefore, SITAGLIPTIN + METFORMIN HCI (VELMETIA) should not be used by a woman who is nursing

EDIATRIC USE

he safety and efficacy of the addition of sitagliptin in pediatric patients aged 10 to 17 years with type 2 diabetes and inadequate glycemic control on nin with or without insulin was assessed in two studies over 54 weeks. The addition of sitagliptin (administered as SITAGLIPTIN + METFORMIN HCI In a 24-week placebo-controlled study of sitagliptin added to ongoing metformin

While superiority of HbA₁₀ reduction was demonstrated for SITAGLIPTIN + METFORMIN HCI (VELMETIA) over metformin at Week 20 in the pooled analysis of these two studies, results from the individual studies were inconsistent. Furthermore, efficacy for SITAGLIPTIN + METFORMIN HCI (VELMETIA) over etformin was not observed at Week 54. Therefore, these results do not support use of SITAGLIPTIN + METFORMIN HCI (VELMETIA) in pediatric subjects 10 to 17 years old) with type 2 diabetes

SITAGLIPTIN + METFORMIN HCI (VELMETIA) have not been studied in pediatric patients under 10 years of age

USE IN THE ELDERLY

SITAGLIPTIN + METFORMIN HCI (VELMETIA)

Because sitagliptin and metformin are substantially excreted by the kidney and because aging can be associated with reduced renal function, SITAGLIPTIN + METFORMIN HCI (VELMETIA) should be used with caution as age increases. Care should be taken in dose selection and should be based on ca monitoring of renal function (See WARNINGS AND PRECAUTIONS. Monitorin

In clinical studies, the safety and effectiveness of sitagliptin in the elderly (≥ 65 years)

Metformin hvdrochloride

Controlled clinical studies of metformin did not include sufficient numbers of elderly patients to determine whether they respond differently from younger patients. although other reported clinical experience has not identified differences in ses between the elderly and younger patients.

UNDESIBABLE EFFECTS

In placebo-controlled clinical trials, in patients with type 2 diabetes mellitus, the mbination of sitagliptin and metformin was generally well tolerated. The overall incidence of side effects reported in patients receiving the combination of sitagliptin and metformin was similar to that reported in patients receiving the combination of placebo and metformir

Combination Therapy with Sitagliptin and Metformin

Initial Therapy In a 24-week placebo-controlled factorial study of initial therapy with sitaoliptin 50 mg twice daily in combination with metformin at 500 or 1000 mg twice daily, the drug-related adverse reactions reported in ≥ 1 % of patients receiving combination therapy (and greater than in patients receiving placebo) are shown in Table 1.

Initial Therapy with Combination of Sitagliptin and Metformin: Drug-Related Adverse Reactions Reported in ≥ 1 % of Patients Receiving nation Therapy (and Greater than in Patients Receiving Place

				. .		
	Number of Patients (%)					
	Placebo	Sitagliptin 100 mg q.d.	Metformin 500 or 1000 mg b.i.d. ⁺⁺	Sitagliptin 50 mg b.i.d. + Metformin 500 or 1000 mg b.i.d. †		
	N = 176	N = 179	N = 364	N = 372		
Diarrhea	2 (1.1)	0 (0.0)	12 (3.3)	13 (3.5)		
Nausea	1 (0.6)	0 (0.0)	9 (2.5)	6 (1.6)		
Dyspepsia	0 (0.0)	0 (0.0)	4 (1.1)	5 (1.3)		
Flatulence	0 (0.0)	0 (0.0)	2 (0.5)	5 (1.3)		
Vomiting	0 (0.0)	0 (0.0)	1 (0.3)	4 (1.1)		
Headache	0 (0.0)	1 (0.6)	4 (1.1)	5 (1.3)		
Hypoglycemia	0 (0.0)	1 (0.6)	2 (0.5)	4 (1.1)		

^{IT} Data pooled for the patients given the lower and higher doses of metformin. Add-on Combination Therapy to Metformin

VELMETIA)) was compared to the addition of placebo to metformin or metformin therapy, 464 patients on metformin were treated with sitagliptin 100 mg once daily and 237 patients were given placebo with metformin. The only drug-related adverse metformin and more commonly than in patients treated with placebo and metformin reaction reported that occurred with an incidence of ≥ 1% and higher than placebo was vomiting (sitagliptin and metformin, 1.1%; placebo and metformin, 0.4%). in patients receiving sitagliptin and metformin was nausea (100 mg sitagliptin and Pancreatitis metformin. 1.1%, placebo and metformin, 0.4%)

Hypoglycemia and Gastrointestinal Adverse Experiences

metformin, the incidence of hypoglycemia (regardless of investigator assessment

placebo. The incidences of pre-specified gastrointestinal adverse experiences in patients treated with the combination of sitagliptin and metformin were similar to se reported for patients treated with metformin alone. See Table 2.

Table 2 poglycemia and Pre-specified Gastrointestinal Adverse Experiences jardless of Investigator Assessment of Causality) Reported in Patients Receiving Combination Therapy[†]

Number of Patients (%)						
Study		Study of Sitagliptin as Add-on to Metformin				
Placebo	Sitagliptin 100 mg q.d.	Metformin 500 or 1000 mg b.i.d. ^{††}	50 mg b.i.d. +	Placebo and		
N = 176	N = 179	N = 364	N = 372	N= 237	N= 464	
1 (0.6)	1 (0.6)	3 (0.8)	6 (1.6)	5 (2.1)	6 (1.3)	
7 (4.0)	5 (2.8)	28 (7.7)	28 (7.5)	6 (2.5)	11 (2.4)	
2 (1.1)	2 (1.1)	20 (5.5)	18 (4.8)	2 (0.8)	6 (1.3)	
1 (0.6)	0 (0.0)	2 (0.5)	8 (2.1)	2 (0.8)	5 (1.1)	
4 (2.3)	6 (3.4)	14 (3.8)	11 (3.0)	9 (3.8)	10 (2.2)	
	Placebo N = 176 1 (0.6) 7 (4.0) 2 (1.1) 1 (0.6) 4 (2.3)	N = 176 N = 179 1 (0.6) 1 (0.6) 7 (4.0) 5 (2.8) 2 (1.1) 2 (1.1) 1 (0.6) 0 (0.0) 4 (2.3) 6 (3.4)	Study of Sitagliptin Initial Therapy Placebo Sitagliptin 100 mg q.d. Metformin 500 or 100 or 100 mg q.d. N = 176 N = 179 N = 364 1 (0.6) 1 (0.6) 3 (0.8) 7 (4.0) 5 (2.8) 28 (7.7) 2 (1.1) 2 (1.1) 20 (5.5) 1 (0.6) 0 (0.0) 2 (0.5) 4 (2.3) 6 (3.4) 14 (3.8)	Study of Sitagliptin and Metformin as Initial Therapy Placebo Sitagliptin 100 mg q.d. Metformin 500 or 1000 mg b.i.d. ™ Sitagliptin b.i.d. ™ N = 176 N = 179 N = 364 N = 372 1 (0.6) 1 (0.6) 3 (0.8) 6 (1.6) 7 (4.0) 5 (2.8) 28 (7.7) 28 (7.5) 2 (1.1) 2 (1.1) 20 (5.5) 18 (4.8) 1 (0.6) 0 (0.0) 2 (0.5) 8 (2.1) 4 (2.3) 6 (3.4) 14 (3.8) 11 (3.0)	Study of Sitagliptin and Metformin as Initial Therapy Study of Si Add-on to Placebo Sitagliptin 100 mg q.d. Metformin 500 or b.i.d. ⁺ Study of Si Add-on to N = 776 N = 179 N = 364 N = 372 N = 237 1 (0.6) 1 (0.6) 3 (0.8) 6 (1.6) 5 (2.1) 7 (4.0) 5 (2.8) 28 (7.7) 28 (7.5) 6 (2.5) 2 (1.1) 2 (0.5) 18 (4.8) 2 (0.8) 1 (0.6) 0 (0.0) 2 (0.5) 8 (2.1) 2 (0.8)	

th Data pooled for the patients given the lower and higher doses of metformin.

In all studies, adverse experiences of hypoglycemia were based on all reports of symptomatic hypoglycemia; a concurrent glucose measurement was not required.

Sitagliptin in Combination with Metformin and a Sulfonylurea

nbination treatment with glimepiride \geq 4 mg daily and metformin \geq 1500 mg daily, the drug-related adverse reactions reported in ≥ 1 % of patients treated with sitaglightin (N=116) and more commonly than in patients treated with placebo V=113) were hypoglycemia (sitagliptin, 13.8%; placebo, 0.9%) and constipation 7% 0.0%)

Sitagliptin in Combination with Metformin and a PPARy Agonist

In a placebo-controlled study of sitagliptin 100 mg daily added to ongoing Pediatric population mbination treatment with metformin and rosiglitazone, the drug-related adverreactions reported through the primary time point at Week 18 in \geq 1% of patients treated with sitagliptin (N=170) and more commonly than in patients treated with placebo (N=92) were: headache (sitagliptin, 2.4%; placebo, 0.0%), diarrhea respiratory tract infection (1.8%, 0.0%), nausea (1.2%, 1.1%), cough (1.2%, 0.0%), (2.8%, 0.9%), and hypoglycemia (6.5%, 3.5%). fungal skin infection (1.2%, 0.0%), peripheral edema (1.2%, 0.0%), and vomiting

Sitagliptin in Combination with Metformin and Insulin

In a 24-week placebo-controlled study of sitagliptin 100 mg added to ongoing combination treatment with metformin ≥ 1500 mg daily and stable-dose and development endpoints. insulin, the only drug-related adverse reaction reported in > 1% of patients treated with sitagliptin (N=229) and more commonly than in patients treated with placebo (N=233) was hypoglycemia (sitagliptin, 10.9%; placebo, 5.2%). In another 24-week study of patients receiving sitagliptin as add-on therapy while undergoing insulin intensification (with or without metformin), the only drug-related adverse reaction reported in ≥ 1% in patients treated with sitagliptin and

In a pooled analysis of 19 double-blind clinical trials that included data Hypoglycernia and Gastrointestinal Adverse Experiences from 10,246 patients randomized to receive sitagliptin 100 mg/day (N=5429) In the placebo-controlled studies of combination therapy with sitagliptin and or corresponding (active or placebo) control (N=4817), the incidence of non-adjudicated acute pancreatitis events was 0.1 per 100 patient-years in each

Drugs that reduce metformin clearance: Concomitant use of drugs that interfere In pediatric patients aged 10 to 17 years with type 2 diabetes, the profile of side of causality) reported in patients treated with the combination of sitagliptin and group (4 patients with an event in 4708 patient-years for sitagliptin and 4 patients Sitagliptin phosphate, <u>Hypersensitivity Reactions</u>); acute pancreatitis, including netformin was similar to that reported for patients treated with metformin and with an event in 3942 patient-years for control). See also TECOS Cardiovascular fatal and non-fatal hemorrhagic and necrotizing pancreatitis (see WARNINGS Safety Study, below, (See WARNINGS AND PRECAUTIONS, Pancreatitis).

> With the combination of sitagliptin and metformin, no clinically meaningful changes n vital signs or in ECG (including in QTc interval) were observed

Adverse Reactions with Sitagliptin

There were no drug-related adverse reactions reported that occurred with an incidence of ≥ 1% in patients receiving sitagliptin. Adverse Reactions with Metformin

Adverse reactions reported (regardless of causality) in greater than 5% of patients treated with metformin and more commonly than in patients treated with placebo are with sitagliptin and metformin compared to patients treated with placebo and diarrhea, nausea/vomiting, flatulence, asthenia, indigestion, abdominal discomfort, and headache

Adverse reactions reported (regardless of causality) in greater than 5% of patients treated with metformin extended-release and more commonly than in patients reated with placebo are diarrhea and nausea/vomiting.

TECOS Cardiovascular Safetv Study

The Trial Evaluating Cardiovascular Outcomes with Sitagliptin (TECOS) ncluded 7,332 patients treated with sitagliptin, 100 mg daily (or 50 mg daily if the baseline estimated glomerular filtration rate (eGFR) was > 30 and < 50 mL/min/1.73 m2), and 7,339 patients treated with placebo in the intention-to-treat population. Both treatments were added to usual care targeting with discontinuation of metformin or Vitamin B₁₂ supplementation (see WARNINGS regional standards for HbA_{1c} and CV risk factors. The study population AND PRECAUTIONS, Metformin hydrochloride). included a total of 2,004 patients ≥ 75 years of age (970 treated with sitagliptin and 1.034 treated with placebo). The overall incidence of serious adverse events n patients receiving situaliptin was similar to that in patients receiving placebo Assessment of pre-specified diabetes-related complications revealed similar Sitagliptin phosphate ncidences between groups including infections (18.4% of the sitagliptin-treated During controlled clinical trials in healthy subjects, single doses of up to 800 mg patients and 17.7% of the placebo-treated patients) and renal failure (1.4% of sitagliptin were generally well tolerated. Minimal increases in QTc, not considere sitacliptin-treated patients and 1.5% of placebo-treated patients). The adverse event to be clinically relevant were observed in one study at a dose of 800 mg sitacliptin profile in patients \geq 75 years of age was generally similar to the overall population.

In the intention-to-treat population, among patients who were using insulin with doses above 800 mg in clinical studies. In Phase I multiple-dose studies, there and/or a sulfonylurea at baseline, the incidence of severe hypoglycemia was 2.7% were no dose-related clinical adverse reactions observed with sitagliptin with doses In a 24-week placebo-controlled study of sitagliptin 100 mg daily added to ongoing in a statistic distribution of the placebo-treated patients; among patients of up to 600 mg per day for periods of up to 10 days and 400 mg per day for periods who were not using insulin and/or a sulfonylurea at baseline, the incidence of severe of up to 28 days. hypoglycemia was 1.0% in sitagliptin-treated patients and 0.7% in placebo-treated In the event of an overdose, it is reasonable to employ the usual supportive patients. The incidence of adjudication-confirmed pancreatitis events was 0.3% in sitagliptin-treated patients and 0.2% in placebo-treated patients. The incidence of adjudication-confirmed malignancy events was 3.7% in sitagliptin-treated patients and 4.0% in placebo-treated patients.

In a pooled analysis of two placebo-controlled clinical studies with SITAGLIPTIN + METFORMIN HCI (VELMETIA) in pediatric patients aged 10 to 17 years is dialyzable by peritoneal dialysis. with type 2 diabetes, the drug-related adverse reactions reported through (1.8% 1.1%), nausea (1.2% 1.1%), hypoglycemia (1.2% 0.0%), and yomiting the 54-week treatment period in ≥1% of patients in the SITAGLIPTIN + 1.2%, 0.0%). Through Week 54, the drug-related adverse reactions reported in METFORMIN HCI (VELMETIA) group (N=107) and more commonly than in patients 2 1% of patients treated with sitagliptin and more commonly than in patients treated in the Metformin/Metformin XR group (N=113) were diarrhea (SITAGLIPTIN + with placebo were: headache (2.4%, 0.0%), hypoglycemia (2.4%, 0.0%), upper METFORMIN HCI (VELMETIA), 2.8%; Metformin/Metformin XR, 0.9%), nausea

> The profile of side effects was comparable to that observed in adults. There is even was a set of the set of t were no clinically relevant differences between the SITAGLIPTIN + METFORMIN is dialyzable with a clearance of up to 170 mL/min under good hemodynamic HCI (VELMETIA) and Metformin/Metformin XR groups through Week 54 in conditions. Therefore, hemodialysis may be useful for removal of accumulated drug laboratory safety endpoints, vital signs, indices of adiposity, or growth and from patients in whom metformin overdosage is suspected.

Postmarketing Experience:

Additional adverse reactions have been identified during postmarketing use of SITAGLIPTIN + METFORMIN HCI (VELMETIA) or sitagliptin, one of the DOSAGE FORMS AND PACKAGING AVAILABLE components of SITAGLIPTIN + METFORMIN HCI (VELMETIA). These reactions have been reported when SITAGLIPTIN + METEORMIN HCL (VELMETIA) or sitagliptin have been used alone and/or in combination with other antihyperolycemic agents. Because these reactions are reported voluntarily from a population of sitagliptin as free base and 500 mg metformin hydrochloride, available in bliste uncertain size, it is generally not possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Hypersensitivity reactions including anaphylaxis, angioedema, rash, urticaria, cutaneous vasculitis, and exfoliative skin conditions including Stevens-Johnson syndrome (see CONTRAINDICATIONS and WARNINGS AND PRECAUTIONS. of 28's.

tablet contains 64.25 mg sitagliptin phosphate monohydrate equivalent to 50 mg packs of 7's hox of 28's Each SITAGLIPTIN + METFORMIN HCI (VELMETIA) 50 mg / 1 g film-coated tablet contains 64.25 mg sitagliptin phosphate monohydrate equivalent to 50 mg sitagliptir as free base and 1 g metformin hydrochloride, available in blister packs of 7's, box

AND PRECAUTIONS. Pancreatitis): worsening renal function, including acute renal failure (sometimes requiring dialysis); bullous pemphigoid (see WARNING AND PRECAUTIONS Bullous Pemphigoid): upper respiratory tract infection nasopharyngitis; constipation; vomiting; headache; arthralgia; myalgia; pain ir

extremity: back pain: pruritus

Laboratorv Test Findings

Sitaoliptin phosphate

Metformin hydrochloride

supportive therapy if required

Metformin hydrochloride

STORAGE CONDITION

The incidence of laboratory adverse experiences was similar in patients treated metformin. Across clinical studies, a small increase in white blood cell coun approximately 200 cells/microl difference in WBC vs placebo; mean baseline WBC approximately 6600 cells/microL) was observed due to a small increase in neutrophils. This observation was seen in most but not all studies. This change i laboratory parameters is not considered to be clinically relevant

In controlled clinical trials of metformin of 29 weeks duration a decrease to subnormal levels of previously normal serum Vitamin B12 levels, without clinical manifestations, was observed in approximately 7% of patients. Such decrease possibly due to interference with Bra absorption from the Bra-intrinsic factor complex is, however, very rarely associated with anemia and appears to be rapidly reversibl

(see PHARMACODYNAMICS. Cardiac Electrophysiology). There is no experience

measures, e.g., remove unabsorbed material from the gastrointestinal tract, employ clinical monitoring (including obtaining an electrocardiogram), and institute

Sitaoliptin is modestly dialyzable. In clinical studies, approximately 13.5 % of the dose was removed over a 3- to 4-hour hemodialvsis session. Prolonged hemodialysis may be considered if clinically appropriate. It is not known if sitagliptin

Overdose of metformin hydrochloride has occurred, including ingestion of amounts greater than 50 grams. Hypoglycemia was reported in approximately 10% of cases ut no causal association with metformin hydrochloride has been established. Laction acidosis has been reported in approximately 32% of metformin overdose cases

Store at temperatures not exceeding 30°C (86°F).

Each SITAGLIPTIN + METFORMIN HCI (VELMETIA) 50 mg / 500 mg film-coated

CAUTION	
Foods, Drugs	, Devices and Cosmetics Act prohibits dispensing without prescription
DATE OF R	EVISION OF PACKAGE INSERT
June 2022	

For suspected adverse drug reaction, report to the FDA; www.fda.gov.ph You may also report an adverse event or product complaint directly to MSD Philippines through: dpoc_philippines@merck.com or +632-87849589. Seek medical attention immediately at the first sign of any adverse drug reaction

Registration Numbers:

50 mg/500 mg Film-Coated Tablets: 50 mg/1 g Film-Coated Tablets:	Reg. No.: DRP-4010-01 Reg. No.: DRP-4012-01		
Dates of First Authorization: 50 mg/500 mg Film-Coated Tablets: 50 mg/1g Film-Coated Tablets:	December 10, 2012 December 10, 2012		
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WPPI-MK0431A-T-062022 000025681-PF Worldwide Patient Product Information (WPPI)

INFORMATION FOR THE PATIENT ABOUT SITAGLIPTIN METFORMIN HCI **VELMETIA®** Film-Coated Tablet

Please read this information carefully before you start to take your medicine n if you have just refilled your prescription. Some of the information have changed.

Remember that your doctor has prescribed this medicine only for you. Neve e it to anyone else

Antidiabetic

What is SITAGLIPTIN + METFORMIN HCI (VELMETIA)?

SITAGLIPTIN + METFORMIN HCI (VELMETIA) is a tablet that contains sitagliptin and metformin hydrochloride as active ingredients

SITAGLIPTIN + METFORMIN HCI (VELMETIA) 50 mg sitagliptin

vhosphate/500 mg metformin hydrochloride SITAGLIPTIN + METFORMIN HCI (VELMETIA) 50 mg sitagliptin phosphate/1 g

SITAGLIPTIN + METFORMIN HCI (VELMETIA) should be taken twice a day.

SITAGLIPTIN + METFORMIN HCI (VELMETIA) is a tablet that contains two prescription medicines, sitagliptin, a member of a class of medicines called nhibitors (dipeptidyl peptidase-4 inhibitors), and metformin, a member of the biguanide class of medicines, work together to control blood sugar levels in patients h type 2 diabetes mellitus. Type 2 diabetes is also called non-insulin-dependen diabetes mellitus, or NIDDM.

- SITAGLIPTIN + METFORMIN HCI (VELMETIA) lowers blood sugar
- levels in patients with type 2 diabetes. SITAGLIPTIN + METFORMIN HCI (VELMETIA) helps to improve the levels of insulin after a meal. SITAGLIPTIN + METFORMIN HCI (VELMETIA) helps the body respond
- better to the insulin it makes naturally. SITAGLIPTIN + METFORMIN HCI (VELMETIA) decreases the amount
- of sugar made by the body. SITAGLIPTIN + METFORMIN HCI (VELMETIA) is unlikely to cause
- low blood sugar (hypoglycemia)

Why has my doctor prescribed SITAGLIPTIN + METFORMIN HCI (VELMETIA)? Your doctor has prescribed SITAGLIPTIN + METFORMIN HCI (VELMETIA), along with diet and exercise, to help lower your blood sugar.

What is type 2 diabetes?

Type 2 diabetes is a condition in which your body does not make enou lin, and the insulin that your body produces does not work as well as it ould. Your body can also make too much sugar. When this happens, suga ilds up in the blood. This can lead to serious medical problems.

The main goal of treating diabetes is to lower your blood sugar to a norr level. Lowering and controlling blood sugar may help prevent or delay mplications of diabetes, such as heart problems, kidney problems idness. and amputatio

High blood sugar can be lowered by diet and exercise, and by certain medicines What should I know before and while taking SITAGLIPTIN + METFORMIN HCI (VELMETIA)?

Who should not take SITAGLIPTIN + METFORMIN HCI (VELMETIA)? You should not take SITAGLIPTIN + METFORMIN HCI (VELMETIA)

- .. have type 1 diabetes
- have severe kidney problems
- are allergic to sitagliptin (JANUVIA®), metformin hydrochlorid or any other components of SITAGI IPTIN + METEORMIN HC ELMETIA). See "What is SITAGLIPTIN + METFORMIN HCI
- have conditions called metabolic acidosis or diabetic ketoacidosis sed ketones in the blood or urine)
- are going to get or receive an injection of dye or contrast agent or an x-ray procedure. Talk to your doctor about when to stop SITAGLIPTIN + METFORMIN HCI (VELMETIA) and when to start agai

What should I tell my doctor before and while taking SITAGLIPTIN + METFORMIN HCI (VELMETIA)?

You should tell your doctor if you:

- have severe kidney problems. have liver problems.
- have heart problems, including congestive heart failure. drink alcohol a lot (all the time or short-term "binge" drinking)
- are pregnant or planning to become pregnant.
- have or have had an allergic reaction to sitagliptin (JANUVIA), metformi
- SITAGLIPTIN + METEORMIN HCI (VELMETIA)
- are taking any prescription medicines. are taking non-prescription medicines.
- are taking any herbal supplements.

While taking SITAGLIPTIN + METFORMIN HCI (VELMETIA)

Cases of inflammation of the pancreas (pancreatitis) have been reported in patients receiving SITAGLIPTIN + METFORMIN HCI (VELMETIA). Pancreatitis can be a serious, potentially life-threatening medical condition. Stop taking SITAGLIPTIN + METFORMIN HCI (VELMETIA) and call your Stop taking SITAGLIPTIN + METFORMIN HCI (VELMETIA) if you get the doctor if you experience severe and persistent stomach pain, with or omiting, because you could have pancreatitis

Cases of a skin reaction called bullous pemphigoid that can require treat in a hospital have been reported in patients receiving SITAGLIPTIN + METFORMIN HCI (VELMETIA). Tell vour doctor if vou develop blisters or the breakdown of your skin (erosion). Your doctor may tell you to stop taking SITAGLIPTIN + METFORMIN HCI (VELMETIA).

Use in children

SITAGLIPTIN + METFORMIN HCI (VELMETIA) is not effective in children and adolescents 10 to 17 years of age with type 2 diabetes. SITAGLIPTIN + METFORMIN HCI (VELMETIA) has not been studied in children younger than 10 years of age.

Use in the elderly

SITAGLIPTIN + METFORMIN HCI (VELMETIA) should be used with caution as age increases. Care should be taken in dose selection and should be on careful and regular monitoring of renal function

Use in pregnancy and breast-feeding

Women who are pregnant or plan to become pregnant should consult with their doctor before taking SITAGLIPTIN + METFORMIN HCI (VELMETIA). SITAGLIPTIN + METFORMIN HCI (VELMETIA) is not recommended for use during pregnancy.

It is not known if SITAGLIPTIN + METFORMIN HCI (VELMETIA) pa human breast milk. You should not use SITAGLIPTIN + METFORMIN HCI Common side effects in patients taking sitagliptin alone include stuffy or running (VELMETIA) if you are breast-feeding or plan to breast-feed.

Can I take SITAGLIPTIN + METFORMIN HCI (VELMETIA) with other medicine

SITAGLIPTIN + METEORMIN HCL (VELMETIA) may affect how well other work and some drugs can affect how well SITAGLIPTIN + METFORMIN (VELMETIA) works. Tell your doctor about all the medicines you take, including prescription, and non-prescription medicines and herbal

Can I drive or operate machinery while using SITAGLIPTIN + METFORMIN HCI (VELMETIA)? medicine or with insulin, low blood sugar (hypogenia), due to the sulforylurea or insulin, can occur. Lower doses of the sulfonylurea medicine or insulin may be

There is no information to suggest that SITAGLIPTIN + METFORMIN HCI (VELMETIA) affect your ability to drive a car or operate machinery.

How should I take SITAGLIPTIN + METFORMIN HCI (VELMETIA)?

- Take SITAGLIPTIN + METEORMIN HCL (VELMETIA) exactly as you doctor has prescribed. Your doctor will tell you how many SITAGLIPTIN + METFORMIN HCI (VELMETIA) tablets to take and how often you should take them.
- Your doctor may need to increase your dose to control your blood sugar.
- Your doctor may prescribe SITAGLIPTIN + METFORMIN HCI (VELMETIA) along with a sulfonylurea, a glitazone or insulin (other medicines to lower blood sugar). Take SITAGLIPTIN + METFORMIN HCI (VELMETIA) twice daily
- with meals to lower your chance of an upset stomac
- Continue to take SITAGLIPTIN + METEORMIN HCI (VELMETIA) as long as your doctor prescribes it so you can continue to help control your blood sugar.

You may need to stop SITAGLIPTIN + METEORMIN HCI (VELMETIA) for time. Call your doctor for instructions if you

have a condition that may be associated with dehydration (large loss of body fluids) such as being sick with severe vomiting, diarrhea or fever, or if you drink fluids a lot less than normal.

plan to have surgery are going to get or receive an injection of dve or contrast agent for

- What should I do in case of an overdose?
- Other side effects not listed above may also occur in some patients. If you take too much SITAGLIPTIN + METFORMIN HCI (VELMETIA), call your doctor or poison control center right away. What should I do if I miss a dose?
- side effect does not go away or gets worse What should roo if it miss a dose? If you miss a dose, take it as soon as you remember. If you do not remember until it is time for your next dose, skip the missed dose and go back to your regular schedule. Do not take a double dose of SITAGLIPTIN + METFORMIN HCI (VELMETIA). How can I learn more about SITAGLIPTIN + METFORMIN HCI (VELMETIA) and diabetes?

Arm or leg pair

How long should I keep my medicine

the last two numbers indicate the year

away from children

of 7's, box of 28's.

CAUTION

June 2022

problems that start up later during treatment may be a sign of something more Copyright © 2023 Merck & Co., Inc., Rahway, NJ, USA, and its affiliates.

Registration Numbers:

50 mg/1 g Film-Coated Tablets

50 mg/500 mg Film-Coated Tablets: 50 mg/1 g Film-Coated Tablets:

Dates of First Authorization

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is of 7's how of 28's

Tell your doctor or pharmacist if you develop any unusual side effect, or if any known

Back pain

- detailed informatio
- What undesirable effects may SITAGLIPTIN + METFORMIN HCI (VELMETIA) have? rare cases, metformin, one of the medicines in SITAGLIPTIN + METFORMIN HCI (VELMETIA), can cause a serious side effect called lactic acidosis.

Lactic acidosis is a medical emergency that can cause death and must be treated in the hospital. Lactic acidosis is caused by a build-up of lactic acid in vour blood.

ng symptoms of lactic acidosis: You feel very weak and tired.

- You have unusual (not normal) muscle pain
- You have trouble breathing.
- You have stomach pain with nausea and vomiting, or diarrhea
- ou feel cold, especially in your arms and legs. You feel dizzy or lightheaded.
- You have a slow or irregular heartbeat.
- Your medical condition suddenly changes

You have a higher chance of getting lactic acidosis if you: ave severe kidney problems

- have liver problems. ave concestive heart failure that requires treatment with medicines

headache

- drink a lot of alcohol (very often or short-term "binge" drinking). get dehydrated (lose a large amount of body fluids). This can happen if you are sick with a fever, vomiting, or diarrhea. Dehydration can also happen when you sweat a lot with activity or exercise and don't drin ough fluids
- have certain x-ray tests with injectable dyes or contrast agents used. have surgery. have a heart attack severe infection or stroke

vomiting, flatulence, weakness, indigestion, abdominal discomfort, and

Common side effects in patients taking metformin alone include diarrhea.

Side effects seen in clinical trials using the combination of sitagliptin and metformin (the medicines in SITAGLIPTIN + METFORMIN HCI (VELMETIA)) were generally

similar to metformin taken alone. Taking SITAGLIPTIN + METFORMIN HCI (VELMETIA) with meals can help reduce stomach side effects. However, if you have unusual and/or unexpected stomach problems, talk with your doctor. Stomach

required. In addition, when SITAGLIPTIN + METEORMIN HCI (VELMETIA) is used

When SITAGLIPTIN + METEORMIN HCL (VELMETIA) was used in combination

with rosiglitazone (a glitazone medicine), the following side effects were reported:

headache, low blood sugar (hypoglycemia), diarrhea, upper respiratory infection.

Additional side effects have been reported in general use with SITAGLIPTIN +

METEORMIN HCI (VELMETIA) These side effects have been reported

when SITAGLIPTIN + METFORMIN HCI (VELMETIA) or sitagliptin have h

reaction and a different medication for your diabetes.

Inflammation of the pancreas Kidney problems (sometimes requiring dialysis)

Vomitina

Muscle aches

lves and/or with other diabetes medicines:

HCI (VELMETIA) or sitagliptin, one of the medicines in SITAGLIPTIN

Allergic reactions, which may be serious, including rash, hives, and

swelling of the face, lips, tongue, and throat that may cause difficulty

SITAGLIPTIN + METFORMIN HCI (VELMETIA) and call your docto

right away. Your doctor may prescribe a medication to treat your allergic

ng If you have an allergic reaction stop tak

nausea, cough, fungal skin infection, swelling of the hands or legs, and vomiting

When SITAGLIPTIN + METEORMIN HCI (VELMETIA) is used with a sulfonylurea WPPI-MK0431A-T-062022

nose and sore throat, upper respiratory tract infection, and headache.

You may obtain further information from your doctor or pharmacist, who has more Do not use this medicine after the month and year shown by the four numbers following EX (or EXP) on the container. The first two numbers indicate the month How should I store SITAGLIPTIN + METFORMIN HCI (VELMETIA)? Store at temperatures not exceeding 30 °C (86° Keep SITAGLIPTIN + METFORMIN HCI (VELMETIA) and all medicines safely DOSAGE FORMS AND PACKAGING AVAILABLE Each SITAGLIPTIN + METEORMIN HCI (VELMETIA) 50 mg / 500 mg Film-coate Tablet contains 64.25 mg sitagliptin phosphate monohydrate equivalent to 50 mg sitagliptin as free base and 500 mg metformin hydrochloride, available in blister ach SITAGLIPTIN + METFORMIN HCI (VELMETIA) 50 mg / 1 g Film-coated blet contains 64.25 mg sitagliptin phosphate monohydrate equivalent to 50 mg agliptin as free base and 1 g metformin hydrochloride, available blister packs Foods, Drugs, Devices and Cosmetics Act prohibits dispensing without prescription DATE OF REVISION OF PACKAGE INSERT For suspected adverse drug reaction, report to the FDA; www.fda.gov.ph. You may also report an adverse event or product complaint directly to MSD Philippines through: dpoc_philippines@merck.com or +632-87849589. Seek medical attention immediately at the first sign of any adverse drug reaction Pog No · DPP (010.0 Reg. No.: DRP-4012-0

December 10. 2012

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