

DRUG DESCRIPTION: Gvia-M (Sitagliptin/Metformin HCI) tablets contain two oral antihyperglycemic drugs used in the management of type 2 diabetes: Sitagliptin and Metformin Hydrochloride. Sitagliptin: Sitagliptin: Sitagliptin:



Composition: Gvia-M 50mg/500mg Tablets: Each film-coated tablet contains Sitagliptin Phosphate, MS eq. to Sitagliptin ..... Metformin HCI USP...... Gvia-M 50mg/1000mg Tablets Each film-coated tablet contains: Sitagliptin Phosphate, MS eq. to 

## CLINICAL PHARMACOLOGY:

Mechanism of Action: Sitagliptin Sitagliptin is a DPP-4 inhibitor, which is believed to Mechanism of Action: Sitagliptin Sitagliptin is a DPP-4 inhibitor, which is believed to event its action in patients with type 2 diabetes by slowing the inactivation of incretin hormones. Concentrations of the active intact hormones are increased by sitagliptin, thereby increasing and prolonging the action of these hormones. Incretin hormones, including glucagon-like peptide-1 (GLP-1) and glucose-dependent insulinotropic polypeptide (GIP), are released by the intestine throughout the day, and levels are increased in response to a meal. These hormones are rapidly inactivated by the enzyme DPP-4. Metformin hydrochrodride Metformin is an antihyperglycenic agent which improves glucose tolerance in patients with type 2 diabetes, lowering both basal and postprandial plasma glucose. Metformin decreases hepatia glucose production, decreases intestinal absorption of glucose, and improves insulin sensitivity by increasing peripheral glucose uptae and utilization. Unlike sulfornylureas, metformin does not produce hypoglycemia in either patients with type 2 diabetes or normal subjects (except in special circumstances

hypogiyoemia it eture parents more your advance and the bioavailability of sitagliptin is Pharmacokinetics: Absorption Sitagliptin: The absolute bioavailability of sitagliptin is approximately 97%. Co-administration of a high-fat meal with sitagliptin had no effect on the pharmacokinetics of sitagliptin. Metformin hydrochloride: The absolute bioavailability of a metformin hydrochloride 500mg tablet given under fasting condition is approximately no environment.

50-60%. Metabolism Sitzgliptim: Approximately 79% of sitzgliptin is excreted unchanged in the urine with metabolism being a minor pathway of elimination. In vitro studies indicated that the primary enzyme responsible for the limited metabolism of sitzgliptin was CYP34A, with contribution from CYP2C8. Metformin hydrochloride: Intravenous single-dose studies in normal subjects demonstrate that metformin is excreted unchanged in the urine and doses not undergo hepatic metabolism (no metabolism kavenous identified in humans) nor not undergo hepatic metabolism (no metabolism kave hepatic metabolism) piliary excretion

biliary excretion. Excretion Sitagliptin: 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 11/2 following a 100mg oral dose of sitagliptin was approximately 12.4 hours and renal clearance was approximately 350 ml/min.

100mg oral dose or singupunt was upper an administration, approximately 90% of the approximately 350 ml/min. Met/ormin hydrochloride. Following oral administration, approximately 90% of the absorbed drug is eliminated via the renar low within the first 24 hours, with a plasma elimination hall-life of approximately 6.2 hours. In blood, the elimination hall-life is approximately 17.6 hours, suggesting that the erythrocyte mass may be a compartment of

INDICATIONS: Gvia-M is indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus when treatment with both sitagliptin and

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tolerability while not exceeding the maximum daily dose of 100 mg sitagliptin and 2000 mg metformin. Initial combination therapy or maintenance of combination therapy should be individualized and left to the discretion of the health care provider. Gvia-M should generally be given twice daily with measl, with gradual dose sescalation to reduce the gastrointestinal (GI) side effects due to metformin. The starting dose of Gvia-M should be based on the patient's current regimen. Gvia-M should be given twice daily with measl. The following doses are available: 50 mg sitagliptin/500 mg metformin hydrochloride 50 mg sitagliptin/100 mg metformin hydrochloride twice daily with gradual dose escalation to reduce the gastrointestinal side effects associated with metformin. The starting dose in gastrointestinal side effects adviced with directed with metformin. The starting dose in grading the start dose in patients and the dose of metformin should provide sitagliptin/500 mg metformin hydrochloride twice daily with gradual dose escalation recommended to reduce gastrointestinal side effects associated with metformin. The starting dose in grading metformin hydrochloride and the dose of metformin already being taken. For patients taking metformin hydrochloride daily, the recommended starting dose of Gvia-M is 50 mg sitagliptin/1000 mg metformin hydrochloride twice daily. The insulin secretagogue or insulin Co-administration of Gvia-M with an insulin secretagogue or insulin Co-administration of Gvia-M with an insulin secretagogue or insulin Co-administration of Gvia-M with an insulin secretagogue or insulin to reduce the risk of hypoglycemia.

Co-administration of Oxia-M with an insulin secretagogue (e.g., sulforylurea) or insulin may require lower does of the insulin secretagogue or insulin to reduce the risk of hypoplycemia. SIDE EFFECTS: This medication may cause lactic acidosis (a build-up of lactic acido in the body, which can be fatal). Lactic acidosis can start slowly and get vorse over time. Get emergency medical help if you have even mild symptoms of lactic acidosis, such as muscle pain or weakness, numb or cold feeling in your arms and legs, trouble breathing, stomach pain, nausea with vornting, slow or irregular hear rate, disciness, or feeling very weak or titre. Get mergency medical help if you have even mild symptoms of lactic acidosis, such as instructions, including allocid acidosis as a substraining swelling. PECAUTIONS: Lactic Acidosis Metformin hydrochloride Lactic acidosis is a rate, buspoper tision accumulation during treatment with (Stadgliptin/Metformin HC) when it occurs, its is tatal 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 significant tissue hypopertision and hypoxemia. Use fisse fisse fisse fisse fisse fisse fisse of the start of the start fits and known whether stagling in is excreted in human milk. Because many fungs are axirefield in human milk, caution should be exercised when Gvia-M in pregnancy Category B: The safety of Gvia-M in pregnancy tage are axirefield in human milk, caution should be exercised when Gvia-M is administered to a nursing woman. Pediatric Use Safety and fettories and first patients under for a thory store administered by the diverse of the socie and is a societed with reduced renal function, Gvia-M should be used with caution as age increases. OVENDOSE: Stagliptin Dartice additional trais in the tage of the socie addition additis addition addition addit

# Metformin hydrochloride

Metformin hydrochloride Overdose of metformin hydrochloride has occurred, including ingestion of amounts greater than 50 grams. Hypoglycemia was reported in approximately 10% of cases, but no causal association with metformin hydrochloride has been established. Lachic acidosis has been reported in approximately 32% of metformin overdose cases. Therefore, hemodialysis may be useful for removal of accumulated drug from patients in whom metformin overdosage is

suspected. CONTRAINDICATIONS: Gvav-M (Sitagliptin/Metformin HCI) is contraindicated in patients with: • Renal disease or renal dystunction, e.g., as suggested by serum creatinine levels ≥ 1.5 mg/dL [males], ≥ 1.4 mg/dL [males] or abnormal creatinine clearance which may also result from conditions such as cardiovascular collapse (shock), acute myocardial infarction,

and septicemia. • Acute or chronic metabolic acidosis, including diabetic ketoacidosis, with or without coma. • History of a serious hypersensitivity reaction to Gvia-M or sitagliptin (one of the components of Gvia-M), such as anaphylaxis or angioedema. INSTRUCTIONS:

### Store below 30°C

ect from heat, light & moisture

For detailed inf GENIX

PRESENTATION

PRESENTATION: - Gvia-M (Stiagliptin/Metformin HCI) 50mg/500mg tablets are available in Alu/Alu blister pack of 2x7's. - Gvia-M (Sitagliptin/Metformin HCI) 50mg/1000mg tablets are available in Alu/Alu blister pack of 2x5's.

GENIX PHARMA PRIVATE LIMITED

بدایات: ڈاکٹر کی ہدایت کے مطابق استعال کریں۔ ۳۰ ڈگری سینٹی گریڈ ہے کم درجہ ترارت پر رکھیں، روثني گرمي اورنمي يے محفوظ رکھيں تمام دوائيں بچوں کی پنج ہے دوررکھیں۔ 44,45-8, Korangi Creek Road, Karachi-75190, Pakistan. UAN: 92-21-111-10-10-11; Fax: 92-21-111-10-10-22 Email: Info@getrapharma.com 174-707-01