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HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use JANUVIA safely and effectively. See full prescribing information for JANUVIA.

JANUVIA™ (sitagliptin phosphate) Tablets
Initial U.S. Approval: 200X

INDICATIONS AND USAGE

JANUVIA is indicated as an adjunct to diet and exercise to improve glycemic control in patients with type 2 diabetes mellitus (type 2 diabetes). JANUVIA is indicated for:

- Monotherapy (1.1)
- Combination therapy with metformin or a peroxisome proliferator-activated receptor gamma (PPAR γ) agonist (e.g., thiazolidinediones) when the single agent does not provide adequate glycemic control. (1.2)

Important Limitations of Use: JANUVIA should not be used in patients with type 1 diabetes mellitus (type 1 diabetes) or for the treatment of diabetic ketoacidosis. (1.3)

DOSAGE AND ADMINISTRATION

The recommended dose of JANUVIA is 100 mg once daily as monotherapy or as combination therapy with metformin or a PPAR γ agonist (e.g., thiazolidinediones). (2.1)

JANUVIA can be taken with or without food. (2.1)

Dosage Adjustment in Patients With Moderate, Severe and End Stage Renal Disease (ESRD) (2.2)	
50 mg once daily	25 mg once daily
Moderate	Severe and ESRD
CrCl \geq 30 to $<$ 50 mL/min ~Serum Cr levels [mg/dL] Men: $>$ 1.7– \leq 3.0; Women: $>$ 1.5– \leq 2.5	CrCl $<$ 30 mL/min ~Serum Cr levels [mg/dL] Men: $>$ 3.0; Women: $>$ 2.5; or on dialysis

DOSAGE FORMS AND STRENGTHS

Tablets: 100 mg, 50 mg, and 25 mg (3)

CONTRAINDICATIONS

None. (4)

WARNINGS AND PRECAUTIONS

A dosage adjustment is recommended in patients with moderate renal insufficiency and in patients with severe renal insufficiency or with ESRD requiring hemodialysis or peritoneal dialysis. Assessment of renal function is recommended prior to initiation of JANUVIA and periodically thereafter. Creatinine clearance can be estimated from serum creatinine using the Cockcroft-Gault formula. (2.2, 5)

ADVERSE REACTIONS

The most common adverse reactions, reported in \geq 5% of patients treated with JANUVIA and more commonly than in patients treated with placebo are: upper respiratory tract infection, nasopharyngitis, and headache. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Merck & Co., Inc. at 1-877-888-4231 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

USE IN SPECIFIC POPULATIONS

Safety and effectiveness of JANUVIA in children under 18 years have not been established. (8.4)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: X/200X

FULL PRESCRIBING INFORMATION: CONTENTS*

1 INDICATIONS AND USAGE

- 1.1 Monotherapy
- 1.2 Combination Therapy
- 1.3 Important Limitations of Use

2 DOSAGE AND ADMINISTRATION

- 2.1 Recommended Dosing
- 2.2 Patients with Renal Insufficiency

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

6 ADVERSE REACTIONS

- 6.1 Clinical Trials Experience

7 DRUG INTERACTIONS

- 7.1 Digoxin

8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
- 8.3 Nursing Mothers
- 8.4 Pediatric Use
- 8.5 Geriatric Use

10 OVERDOSAGE

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

- 12.1 Mechanism of Action
- 12.2 Pharmacodynamics
- 12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

- 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

14 CLINICAL STUDIES

- 14.1 Monotherapy
- 14.2 Combination Therapy

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

- 17.1 Instructions
- 17.2 Laboratory Tests
- 17.3 FDA-Approved Patient Labeling

*Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Monotherapy

JANUVIA¹ is indicated as an adjunct to diet and exercise to improve glycemic control in patients with type 2 diabetes mellitus.

JANUVIA™
(sitagliptin phosphate) Tablets

XXXXXXX

1.2 Combination Therapy

JANUVIA is indicated in patients with type 2 diabetes mellitus to improve glycemic control in combination with metformin or a PPAR γ agonist (e.g., thiazolidinediones) when the single agent alone, with diet and exercise, does not provide adequate glycemic control.

1.3 Important Limitations of Use

JANUVIA should not be used in patients with type 1 diabetes or for the treatment of diabetic ketoacidosis, as it would not be effective in these settings.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosing

The recommended dose of JANUVIA is 100 mg once daily as monotherapy or as combination therapy with metformin or a PPAR γ agonist (e.g., thiazolidinediones). JANUVIA can be taken with or without food.

2.2 Patients with Renal Insufficiency

For patients with mild renal insufficiency (creatinine clearance [CrCl] \geq 50 mL/min, approximately corresponding to serum creatinine levels of \leq 1.7 mg/dL in men and \leq 1.5 mg/dL in women), no dosage adjustment for JANUVIA is required.

For patients with moderate renal insufficiency (CrCl \geq 30 to $<$ 50 mL/min, approximately corresponding to serum creatinine levels of $>$ 1.7 to \leq 3.0 mg/dL in men and $>$ 1.5 to \leq 2.5 mg/dL in women), the dose of JANUVIA is 50 mg once daily.

For patients with severe renal insufficiency (CrCl $<$ 30 mL/min, approximately corresponding to serum creatinine levels of $>$ 3.0 mg/dL in men and $>$ 2.5 mg/dL in women) or with end-stage renal disease (ESRD) requiring hemodialysis or peritoneal dialysis, the dose of JANUVIA is 25 mg once daily. JANUVIA may be administered without regard to the timing of hemodialysis.

Because there is a need for dosage adjustment based upon renal function, assessment of renal function is recommended prior to initiation of JANUVIA and periodically thereafter. Creatinine clearance can be estimated from serum creatinine using the Cockcroft-Gault formula. [See *Clinical Pharmacology* (12.3).]

3 DOSAGE FORMS AND STRENGTHS

- 100 mg tablets are beige, round, film-coated tablets with “277” on one side.
- 50 mg tablets are light beige, round, film-coated tablets with “112” on one side.
- 25 mg tablets are pink, round, film-coated tablets with “221” on one side.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

Use in Patients with Renal Insufficiency: A dosage adjustment is recommended in patients with moderate or severe renal insufficiency and in patients with ESRD requiring hemodialysis or peritoneal dialysis. [See *Dosage and Administration* (2.2); *Clinical Pharmacology* (12.3).]

Use with Medications Known to Cause Hypoglycemia: In clinical trials of JANUVIA as monotherapy and JANUVIA as part of combination therapy with metformin or pioglitazone, rates of hypoglycemia reported with JANUVIA were similar to rates in patients taking placebo. The use of JANUVIA in combination with medications known to cause hypoglycemia, such as sulfonylureas or insulin, has not been adequately studied.

6 ADVERSE REACTIONS

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

JANUVIA™
(sitagliptin phosphate) Tablets

XXXXXXX

6.1 Clinical Trials Experience

In controlled clinical studies as both monotherapy and combination therapy, the overall incidence of adverse reactions with JANUVIA was similar to that reported with placebo. Discontinuation of therapy due to clinical adverse reactions was also similar to placebo.

Two placebo-controlled monotherapy studies, one of 18- and one of 24-week duration, included patients treated with JANUVIA 100 mg daily, JANUVIA 200 mg daily, and placebo. Two 24-week, placebo-controlled combination studies, one with metformin and one with pioglitazone, were also conducted. In addition to a stable dose of metformin or pioglitazone, patients whose diabetes was not adequately controlled were given either JANUVIA 100 mg daily or placebo. The adverse reactions, reported regardless of investigator assessment of causality in ≥5% of patients treated with JANUVIA 100 mg daily as monotherapy or in combination with pioglitazone and more commonly than in patients treated with placebo, are shown in Table 1.

Table 1
Placebo-Controlled Clinical Studies of JANUVIA Monotherapy or Combination with Pioglitazone:
Adverse Reactions Reported in ≥5% of Patients and More Commonly than in Patients
Given Placebo, Regardless of Investigator Assessment of Causality[†]

Monotherapy	Number of Patients (%)	
	JANUVIA, 100 mg	Placebo
	N = 443	N = 363
Nasopharyngitis	23 (5.2)	12 (3.3)
Combination with Pioglitazone	JANUVIA 100 mg + Pioglitazone	Placebo + Pioglitazone
	N = 175	N = 178
Upper Respiratory Tract Infection	11 (6.3)	6 (3.4)
Headache	9 (5.1)	7 (3.9)

[†] Intent to treat population

In patients receiving JANUVIA in combination with metformin, there were no adverse reactions reported regardless of investigator assessment of causality in ≥5% of patients and more commonly than in patients given placebo.

The overall incidence of hypoglycemia in patients treated with JANUVIA 100 mg was similar to placebo (1.2% vs 0.9%). The incidence of selected gastrointestinal adverse reactions in patients treated with JANUVIA was as follows: abdominal pain (JANUVIA 100 mg, 2.3%; placebo, 2.1%), nausea (1.4%, 0.6%), and diarrhea (3.0%, 2.3%).

No clinically meaningful changes in vital signs or in ECG (including in QTc interval) were observed in patients treated with JANUVIA.

Laboratory Tests

The incidence of laboratory adverse reactions in patients treated with JANUVIA 100 mg was 8.2% compared to 9.8% in patients treated with placebo. Across clinical studies, a small increase in white blood cell count (approximately 200 cells/microL difference in WBC vs placebo; mean baseline WBC approximately 6600 cells/microL) was observed due to an increase in neutrophils. This observation was seen in most but not all studies. This change in laboratory parameters is not considered to be clinically relevant. In a 12-week study of 91 patients with chronic renal insufficiency, 37 patients with moderate renal insufficiency were randomized to JANUVIA 50 mg daily, while 14 patients with the same magnitude of renal impairment were randomized to placebo. Mean (SE) increases in serum creatinine were observed in patients treated with JANUVIA [0.12 mg/dL (0.04)] and in patients treated with placebo [0.07 mg/dL (0.07)]. The clinical significance of this added increase in serum creatinine relative to placebo is not known.

7 DRUG INTERACTIONS

7.1 Digoxin

There was a slight increase in the area under the curve (AUC, 11%) and mean peak drug concentration (C_{max}, 18%) of digoxin with the co-administration of 100 mg sitagliptin for 10 days. Patients receiving digoxin should be monitored appropriately. No dosage adjustment of digoxin or JANUVIA is recommended.

JANUVIA™
(sitagliptin phosphate) Tablets

XXXXXXX

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category B:

Reproduction studies have been performed in rats and rabbits. Doses of sitagliptin up to 125 mg/kg (approximately 12 times the human exposure at the maximum recommended human dose) did not impair fertility or harm the fetus. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed. Merck & Co., Inc. maintains a registry to monitor the pregnancy outcomes of women exposed to JANUVIA while pregnant. Health care providers are encouraged to report any prenatal exposure to JANUVIA by calling the Pregnancy Registry at (800) 986-8999.

Sitagliptin administered to pregnant female rats and rabbits from gestation day 6 to 20 (organogenesis) was not teratogenic at oral doses up to 250 mg/kg (rats) and 125 mg/kg (rabbits), or approximately 30- and 20-times human exposure at the maximum recommended human dose (MRHD) of 100 mg/day based on AUC comparisons. Higher doses increased the incidence of rib malformations in offspring at 1000 mg/kg, or approximately 100 times human exposure at the MRHD.

Sitagliptin administered to female rats from gestation day 6 to lactation day 21 decreased body weight in male and female offspring at 1000 mg/kg. No functional or behavioral toxicity was observed in offspring of rats.

Placental transfer of sitagliptin administered to pregnant rats was approximately 45% at 2 hours and 80% at 24 hours postdose. Placental transfer of sitagliptin administered to pregnant rabbits was approximately 66% at 2 hours and 30% at 24 hours.

8.3 Nursing Mothers

Sitagliptin is secreted in the milk of lactating rats at a milk to plasma ratio of 4:1. It is not known whether sitagliptin is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when JANUVIA is administered to a nursing woman.

8.4 Pediatric Use

Safety and effectiveness of JANUVIA in pediatric patients have not been established.

8.5 Geriatric Use

Of the total number of subjects (N=3884) in clinical safety and efficacy studies of JANUVIA, 725 patients were 65 years and over, while 61 patients were 75 years and over. No overall differences in safety or effectiveness were observed between subjects 65 years and over and younger subjects. While this and other reported clinical experience have not identified differences in responses between the elderly and younger patients, greater sensitivity of some older individuals cannot be ruled out.

This drug is known to be substantially excreted by the kidney. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection in the elderly, and it may be useful to assess renal function in these patients prior to initiating dosing and periodically thereafter [see *Dosage and Administration (2.2); Clinical Pharmacology (12.3)*].

10 OVERDOSAGE

During controlled clinical trials in healthy subjects, single doses of up to 800 mg JANUVIA were administered. Maximal mean increases in QTc of 8.0 msec were observed in one study at a dose of 800 mg JANUVIA, a mean effect that is not considered clinically important [see *Clinical Pharmacology (12.2)*]. There is no experience with doses above 800 mg in humans.

In the event of an overdose, it is reasonable to employ the usual supportive measures, e.g., remove unabsorbed material from the gastrointestinal tract, employ clinical monitoring (including obtaining an electrocardiogram), and institute supportive therapy as dictated by the patient's clinical status.

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

11 DESCRIPTION

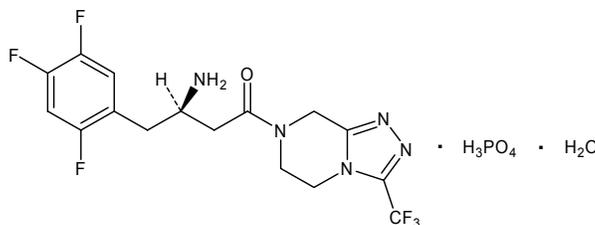
JANUVIA Tablets contain sitagliptin phosphate, an orally-active inhibitor of the dipeptidyl peptidase-4 (DPP-4) enzyme.

JANUVIA™
(sitagliptin phosphate) Tablets

XXXXXXX

Sitagliptin phosphate is described chemically as 7-[(3*R*)-3-amino-1-oxo-4-(2,4,5-trifluorophenyl)butyl]-5,6,7,8-tetrahydro-3-(trifluoromethyl)-1,2,4-triazolo[4,3-*a*]pyrazine phosphate (1:1) monohydrate.

The empirical formula is $C_{16}H_{15}F_6N_5O \cdot H_3PO_4 \cdot H_2O$ and the molecular weight is 523.32. The structural formula is:



Sitagliptin phosphate is a white to off-white, crystalline, non-hygroscopic powder. It is soluble in water and *N,N*-dimethyl formamide; slightly soluble in methanol; very slightly soluble in ethanol, acetone, and acetonitrile; and insoluble in isopropanol and isopropyl acetate.

Each film-coated tablet of JANUVIA contains 32.13, 64.25, or 128.5 mg of sitagliptin phosphate monohydrate, which is equivalent to 25, 50, or 100 mg, respectively, of free base and the following inactive ingredients: microcrystalline cellulose, anhydrous dibasic calcium phosphate, croscarmellose sodium, magnesium stearate, and sodium stearyl fumarate. In addition, the film coating contains the following inactive ingredients: polyvinyl alcohol, polyethylene glycol, talc, titanium dioxide, red iron oxide, and yellow iron oxide.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Sitagliptin is a DPP-4 inhibitor, which is believed to exert its actions in patients with type 2 diabetes by slowing the inactivation of incretin hormones. Concentrations of the active intact hormones are increased by JANUVIA, 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. 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 GIP increase insulin synthesis and release from pancreatic beta cells by intracellular signaling pathways involving cyclic AMP. GLP-1 also lowers glucagon secretion from pancreatic alpha cells, leading to reduced hepatic glucose production. By increasing and prolonging active incretin levels, JANUVIA increases insulin release and decreases glucagon levels in the circulation in a glucose-dependent manner. Sitagliptin demonstrates selectivity for DPP-4 and does not inhibit DPP-8 or DPP-9 activity *in vitro* at concentrations approximating those from therapeutic doses.

12.2 Pharmacodynamics

General

In patients with type 2 diabetes, administration of JANUVIA led to inhibition of DPP-4 enzyme activity for a 24-hour period. After an oral glucose load or a meal, this DPP-4 inhibition resulted in a 2- to 3-fold increase in circulating levels of active GLP-1 and GIP, decreased glucagon concentrations, and increased responsiveness of insulin release to glucose, resulting in higher C-peptide and insulin concentrations. The rise in insulin with the decrease in glucagon was associated with lower fasting glucose concentrations and reduced glucose excursion following an oral glucose load or a meal.

In studies with healthy subjects, JANUVIA did not lower blood glucose or cause hypoglycemia.

Cardiac Electrophysiology

In a randomized, placebo-controlled crossover study, 79 healthy subjects were administered a single oral dose of JANUVIA 100 mg, JANUVIA 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, the maximum increase in the placebo-corrected mean change in QTc from baseline was observed at 3 hours postdose and was 8.0 msec. This increase is not considered to be clinically significant. At the 800 mg dose, peak sitagliptin plasma concentrations were approximately 11-fold higher than the peak concentrations following a 100 mg dose.

JANUVIA™
(sitagliptin phosphate) Tablets

XXXXXXX

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

12.3 Pharmacokinetics

The pharmacokinetics of sitagliptin has been extensively characterized in healthy subjects and patients with type 2 diabetes. After oral administration of a 100 mg dose to healthy subjects, sitagliptin was rapidly absorbed, with peak plasma concentrations (median T_{max}) occurring 1 to 4 hours postdose. Plasma AUC of sitagliptin increased in a dose-proportional manner. Following a single oral 100 mg dose to healthy volunteers, mean plasma AUC of sitagliptin was 8.52 $\mu\text{M}\cdot\text{hr}$, C_{max} was 950 nM, and apparent terminal half-life ($t_{1/2}$) was 12.4 hours. Plasma AUC of sitagliptin increased approximately 14% following 100 mg doses at steady-state compared to the first dose. The intra-subject and inter-subject coefficients of variation for sitagliptin AUC were small (5.8% and 15.1%). The pharmacokinetics of sitagliptin was generally similar in healthy subjects and in patients with type 2 diabetes.

Absorption

The absolute bioavailability of sitagliptin is approximately 87%. Because coadministration of a high-fat meal with JANUVIA had no effect on the pharmacokinetics, JANUVIA may be administered with or without food.

Distribution

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

Metabolism

Approximately 79% of sitagliptin is excreted unchanged in the urine with metabolism being a minor pathway of elimination.

Following a [^{14}C]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 sitagliptin. *In vitro* studies indicated that the primary enzyme responsible for the limited metabolism of sitagliptin was CYP3A4, with contribution from CYP2C8.

Excretion

Following administration of an oral [^{14}C]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 $t_{1/2}$ 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 transporter-3 (hOAT-3), which may be involved in the renal elimination of sitagliptin. The clinical relevance of hOAT-3 in sitagliptin transport has not been established. Sitagliptin is also a substrate of p-glycoprotein, which may also be involved in mediating the renal elimination of sitagliptin. However, cyclosporine, a p-glycoprotein inhibitor, did not reduce the renal clearance of sitagliptin.

Special Populations

Renal Insufficiency

A single-dose, open-label study was conducted to evaluate the pharmacokinetics of JANUVIA (50 mg dose) in patients with varying degrees of chronic renal insufficiency compared to normal healthy control subjects. The study included patients with renal insufficiency classified on the basis of creatinine clearance as mild (50 to <80 mL/min), moderate (30 to <50 mL/min), and severe (<30 mL/min), as well as patients with ESRD on hemodialysis. In addition, the effects of renal insufficiency on sitagliptin pharmacokinetics in patients with type 2 diabetes and mild or moderate renal insufficiency were assessed using population pharmacokinetic analyses. Creatinine clearance was measured by 24-hour urinary creatinine clearance measurements or estimated from serum creatinine based on the Cockcroft-Gault formula:

$$\text{CrCl} = \frac{[140 - \text{age (years)}] \times \text{weight (kg)} \{ \times 0.85 \text{ for female patients} \}}{[72 \times \text{serum creatinine (mg/dL)}]}$$

Compared to normal healthy control subjects, an approximate 1.1- to 1.6-fold increase in plasma AUC of sitagliptin was observed in patients with mild renal insufficiency. Because increases of this

JANUVIA™
(sitagliptin phosphate) Tablets

XXXXXXX

magnitude are not clinically relevant, dosage adjustment in patients with mild renal insufficiency is not necessary. Plasma AUC levels of sitagliptin were increased approximately 2-fold and 4-fold in patients with moderate renal insufficiency and in patients with severe renal insufficiency, including patients with ESRD on hemodialysis, respectively. Sitagliptin was modestly removed by hemodialysis (13.5% over a 3- to 4-hour hemodialysis session starting 4 hours postdose). To achieve plasma concentrations of sitagliptin similar to those in patients with normal renal function, lower dosages are recommended in patients with moderate and severe renal insufficiency, as well as in ESRD patients requiring hemodialysis. [See *Dosage and Administration (2.2)*.]

Hepatic Insufficiency

In patients with moderate hepatic insufficiency (Child-Pugh score 7 to 9), mean AUC and C_{max} of sitagliptin increased approximately 21% and 13%, respectively, compared to healthy matched controls following administration of a single 100 mg dose of JANUVIA. These differences are not considered to be clinically meaningful. No dosage adjustment for JANUVIA is necessary for patients with mild or moderate hepatic insufficiency.

There is no clinical experience in patients with severe hepatic insufficiency (Child-Pugh score >9).

Body Mass Index (BMI)

No dosage adjustment is necessary based on BMI. Body mass index 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.

Gender

No dosage adjustment is necessary based on gender. Gender 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.

Geriatric

No dosage adjustment is required based solely on age. When the effects of age on renal function are taken into account, age alone did not have a clinically meaningful impact on the pharmacokinetics of sitagliptin based on a population pharmacokinetic analysis. Elderly subjects (65 to 80 years) had approximately 19% higher plasma concentrations of sitagliptin compared to younger subjects.

Pediatric

Studies characterizing the pharmacokinetics of sitagliptin in pediatric patients have not been performed.

Race

No dosage adjustment is necessary based on race. Race had no clinically meaningful effect on the pharmacokinetics of sitagliptin based on a composite analysis of available pharmacokinetic data, including subjects of white, Hispanic, black, Asian, and other racial groups.

Drug Interactions

In Vitro Assessment of Drug Interactions

Sitagliptin is not an inhibitor of CYP isozymes CYP3A4, 2C8, 2C9, 2D6, 1A2, 2C19 or 2B6, and is not an inducer of CYP3A4. Sitagliptin is a p-glycoprotein substrate, but does not inhibit p-glycoprotein mediated transport of digoxin. Based on these results, sitagliptin is considered unlikely to cause interactions with other drugs that utilize these pathways.

Sitagliptin is not extensively bound to plasma proteins. Therefore, the propensity of sitagliptin to be involved in clinically meaningful drug-drug interactions mediated by plasma protein binding displacement is very low.

In Vivo Assessment of Drug Interactions

Effects of Sitagliptin on Other Drugs

In clinical studies, as described below, sitagliptin did not meaningfully alter the pharmacokinetics of metformin, glyburide, simvastatin, rosiglitazone, warfarin, or oral contraceptives, providing *in vivo* evidence of a low propensity for causing drug interactions with substrates of CYP3A4, CYP2C8, CYP2C9, and organic cationic transporter (OCT).

Digoxin: Sitagliptin had a minimal effect on the pharmacokinetics of digoxin. Following administration of 0.25 mg digoxin concomitantly with 100 mg of JANUVIA daily for 10 days, the plasma AUC of digoxin was increased by 11%, and the plasma C_{max} by 18%.

Metformin: Co-administration of multiple twice-daily doses of sitagliptin with metformin, an OCT substrate, did not meaningfully alter the pharmacokinetics of metformin in patients with type 2 diabetes. Therefore, sitagliptin is not an inhibitor of OCT-mediated transport.

JANUVIA™
(sitagliptin phosphate) Tablets

XXXXXXX

Sulfonylureas: Single-dose pharmacokinetics of glyburide, a CYP2C9 substrate, was not meaningfully altered in subjects receiving multiple doses of sitagliptin. Clinically meaningful interactions would not be expected with other sulfonylureas (e.g., glipizide, tolbutamide, and glimepiride) which, like glyburide, are primarily eliminated by CYP2C9. However, the risk of hypoglycemia from the co-administration of sitagliptin and sulfonylureas is unknown.

Simvastatin: Single-dose pharmacokinetics of simvastatin, a CYP3A4 substrate, was not meaningfully altered in subjects receiving multiple daily doses of sitagliptin. Therefore, sitagliptin is not an inhibitor of CYP3A4-mediated metabolism.

Thiazolidinediones: Single-dose pharmacokinetics of rosiglitazone was not meaningfully altered in subjects receiving multiple daily doses of sitagliptin, indicating that JANUVIA is not an inhibitor of CYP2C8-mediated metabolism.

Warfarin: Multiple daily doses of sitagliptin did not meaningfully alter the pharmacokinetics, as assessed by measurement of S(-) or R(+) warfarin enantiomers, or pharmacodynamics (as assessed by measurement of prothrombin INR) of a single dose of warfarin. Because S(-) warfarin is primarily metabolized by CYP2C9, these data also support the conclusion that sitagliptin is not a CYP2C9 inhibitor.

Oral Contraceptives: Co-administration with sitagliptin did not meaningfully alter the steady-state pharmacokinetics of norethindrone or ethinyl estradiol.

Effects of Other Drugs on Sitagliptin

Clinical data described below suggest that sitagliptin is not susceptible to clinically meaningful interactions by co-administered medications:

Metformin: Co-administration of multiple twice-daily doses of metformin with sitagliptin did not meaningfully alter the pharmacokinetics of sitagliptin in patients with type 2 diabetes.

Cyclosporine: A study was conducted to assess the effect of cyclosporine, a potent inhibitor of p-glycoprotein, on the pharmacokinetics of sitagliptin. Co-administration of a single 100 mg oral dose of JANUVIA and a single 600 mg oral dose of cyclosporine increased the AUC and C_{max} of sitagliptin by approximately 29% and 68%, respectively. These modest changes in sitagliptin pharmacokinetics were not considered to be clinically meaningful. The renal clearance of sitagliptin was also not meaningfully altered. Therefore, meaningful interactions would not be expected with other p-glycoprotein inhibitors.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

A two-year carcinogenicity study was conducted in male and female rats given oral doses of sitagliptin of 50, 150, and 500 mg/kg/day. There was an increased incidence of combined liver adenoma/carcinoma in males and females and of liver carcinoma in females at 500 mg/kg. This dose results in exposures approximately 60 times the human exposure at the maximum recommended daily adult human dose (MRHD) of 100 mg/day based on AUC comparisons. Liver tumors were not observed at 150 mg/kg, approximately 20 times the human exposure at the MRHD. A two-year carcinogenicity study was conducted in male and female mice given oral doses of sitagliptin of 50, 125, 250, and 500 mg/kg/day. There was no increase in the incidence of tumors in any organ up to 500 mg/kg, approximately 70 times human exposure at the MRHD. Sitagliptin was not mutagenic or clastogenic with or without metabolic activation in the Ames bacterial mutagenicity assay, a Chinese hamster ovary (CHO) chromosome aberration assay, an *in vitro* cytogenetics assay in CHO, an *in vitro* rat hepatocyte DNA alkaline elution assay, and an *in vivo* micronucleus assay.

In rat fertility studies with oral gavage doses of 125, 250, and 1000 mg/kg, males were treated for 4 weeks prior to mating, during mating, up to scheduled termination (approximately 8 weeks total) and females were treated 2 weeks prior to mating through gestation day 7. No adverse effect on fertility was observed at 125 mg/kg (approximately 12 times human exposure at the MRHD of 100 mg/day based on AUC comparisons). At higher doses, nondose-related increased resorptions in females were observed (approximately 25 and 100 times human exposure at the MRHD based on AUC comparison).

14 CLINICAL STUDIES

There were 2316 patients with type 2 diabetes randomized in four double-blind, placebo-controlled clinical safety and efficacy studies conducted to evaluate the effects of sitagliptin on glycemic control. In these studies, the mean age of patients was 54.8 years, and 62% of patients were white, 18% were Hispanic, 6% were black, 9% were Asian, and 4% were of other racial groups.

JANUVIA™
(sitagliptin phosphate) Tablets

XXXXXXX

In patients with type 2 diabetes, treatment with JANUVIA produced clinically significant improvements in hemoglobin A1C, fasting plasma glucose (FPG) and 2-hour post-prandial glucose (PPG) compared to placebo.

14.1 Monotherapy

A total of 1262 patients with type 2 diabetes participated in two double-blind, placebo-controlled studies, one of 18-week and another of 24-week duration, to evaluate the efficacy and safety of JANUVIA monotherapy. In both monotherapy studies, patients currently on an antihyperglycemic agent discontinued the agent, and underwent a diet, exercise, and drug wash-out period of about 7 weeks. Patients with inadequate glycemic control (A1C 7% to 10%) after the wash-out period were randomized after completing a 2-week single-blind placebo run-in period; patients not currently on antihyperglycemic agents (off therapy for at least 8 weeks) with inadequate glycemic control (A1C 7% to 10%) were randomized after completing the 2-week single-blind placebo run-in period. In the 18-week study, 521 patients were randomized to placebo, JANUVIA 100 mg, or JANUVIA 200 mg, and in the 24-week study 741 patients were randomized to placebo, JANUVIA 100 mg, or JANUVIA 200 mg. Patients who failed to meet specific glycemic goals during the studies were treated with metformin rescue, added on to placebo or JANUVIA.

Treatment with JANUVIA at 100 mg daily provided significant improvements in A1C, FPG, and 2-hour PPG compared to placebo (Table 2). In the 18-week study, 9% of patients receiving JANUVIA 100 mg and 17% who received placebo required rescue therapy. In the 24-week study, 9% of patients receiving JANUVIA 100 mg and 21% of patients receiving placebo required rescue therapy. The improvement in A1C was not affected by gender, age, race, or baseline BMI. As is typical for trials of agents to treat type 2 diabetes, mean response to JANUVIA in A1C lowering appears to be related to the degree of A1C elevation at baseline. Overall, the 200 mg daily dose did not provide greater glycemic efficacy than the 100 mg daily dose. The effect of JANUVIA on lipid endpoints was similar to placebo. Body weight did not increase from baseline with JANUVIA therapy in either study, compared to a small reduction in patients given placebo.

JANUVIA™
(sitagliptin phosphate) Tablets

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Table 2
Glycemic Parameters in 18- and 24-Week Placebo-Controlled Studies of JANUVIA in Patients with Type 2 Diabetes[†]

	18-Week Study		24-Week Study	
	JANUVIA 100 mg	Placebo	JANUVIA 100 mg	Placebo
A1C (%)	N = 193	N = 103	N = 229	N = 244
Baseline (mean)	8.0	8.1	8.0	8.0
Change from baseline (adjusted mean [‡])	-0.5	0.1	-0.6	0.2
Difference from placebo (adjusted mean [‡]) (95% CI)	-0.6 [§] (-0.8, -0.4)		-0.8 [§] (-1.0, -0.6)	
Patients (%) achieving A1C <7%	69 (36%)	16 (16%)	93 (41%)	41 (17%)
FPG (mg/dL)	N = 201	N = 107	N = 234	N = 247
Baseline (mean)	180	184	170	176
Change from baseline (adjusted mean [‡])	-13	7	-12	5
Difference from placebo (adjusted mean [‡]) (95% CI)	-20 [§] (-31, -9)		-17 [§] (-24, -10)	
2-hour PPG (mg/dL)			N = 201	N = 204
Baseline (mean)			257	271
Change from baseline (adjusted mean [‡])			-49	-2
Difference from placebo (adjusted mean [‡]) (95% CI)			-47 [§] (-59, -34)	

[†] Intent to Treat Population using last observation on study prior to metformin rescue therapy.

[‡] Least squares means adjusted for prior antihyperglycemic therapy status and baseline value.

[§] p<0.001 compared to placebo.

|| Data not available.

Additional Monotherapy Study

A multinational, randomized, double-blind, placebo-controlled study was also conducted to assess the safety and tolerability of JANUVIA in 91 patients with type 2 diabetes and chronic renal insufficiency (creatinine clearance <50 mL/min). Patients with moderate renal insufficiency received 50 mg daily of JANUVIA and those with severe renal insufficiency or with ESRD on hemodialysis or peritoneal dialysis received 25 mg daily. In this study, the safety and tolerability of JANUVIA were generally similar to placebo. A small increase in serum creatinine was reported in patients with moderate renal insufficiency treated with JANUVIA relative to those on placebo. In addition, the reductions in A1C and FPG with JANUVIA compared to placebo were generally similar to those observed in other monotherapy studies. [See *Clinical Pharmacology* (12.3).]

14.2 Combination Therapy

Combination Therapy with Metformin

A total of 701 patients with type 2 diabetes participated in a 24-week, randomized, double-blind, placebo-controlled study designed to assess the efficacy of JANUVIA in combination with metformin. Patients already on metformin (N=431) at a dose of at least 1500 mg per day were randomized after completing a 2-week single-blind placebo run-in period. Patients on metformin and another antihyperglycemic agent (N = 229) and patients not on any antihyperglycemic agents (off therapy for at least 8 weeks, N = 41) were randomized after a run-in period of approximately 10 weeks on metformin (at a dose of at least 1500 mg per day) in monotherapy. Patients were randomized to the addition of either 100 mg of JANUVIA or placebo, administered once daily. Patients who failed to meet specific glycemic goals during the studies were treated with pioglitazone rescue.

In combination with metformin, JANUVIA provided significant improvements in A1C, FPG, and 2-hour PPG compared to placebo with metformin (Table 3). Rescue glycemic therapy was used in 5% of patients treated with JANUVIA 100 mg and 14% of patients treated with placebo. A similar decrease in body weight was observed for both treatment groups.

JANUVIA™
(sitagliptin phosphate) Tablets

XXXXXXXX

Table 3
Glycemic Parameters at Final Visit (24-Week Study)
for JANUVIA in Combination with Metformin[†]

	JANUVIA 100 mg + Metformin	Placebo + Metformin
A1C (%)	N = 453	N = 224
Baseline (mean)	8.0	8.0
Change from baseline (adjusted mean [‡])	-0.7	-0.0
Difference from placebo + metformin (adjusted mean [‡]) (95% CI)	-0.7 [§] (-0.8, -0.5)	
Patients (%) achieving A1C <7%	213 (47%)	41 (18%)
FPG (mg/dL)	N = 454	N = 226
Baseline (mean)	170	174
Change from baseline (adjusted mean [‡])	-17	9
Difference from placebo + metformin (adjusted mean [‡]) (95% CI)	-25 [§] (-31, -20)	
2-hour PPG (mg/dL)	N = 387	N = 182
Baseline (mean)	275	272
Change from baseline (adjusted mean [‡])	-62	-11
Difference from placebo + metformin (adjusted mean [‡]) (95% CI)	-51 [§] (-61, -41)	

[†] Intent to Treat Population using last observation on study prior to pioglitazone rescue therapy.

[‡] Least squares means adjusted for prior antihyperglycemic therapy and baseline value.

[§] p<0.001 compared to placebo + metformin.

Combination Therapy with Pioglitazone

A total of 353 patients with type 2 diabetes participated in a 24-week, randomized, double-blind, placebo-controlled study designed to assess the efficacy of JANUVIA in combination with pioglitazone. Patients on any oral antihyperglycemic agent in monotherapy (N=212) or on a PPAR γ agent in combination therapy (N=106) or not on an antihyperglycemic agent (off therapy for at least 8 weeks, N=34) were switched to monotherapy with pioglitazone (at a dose of 30-45 mg per day), and completed a run-in period of approximately 12 weeks in duration. After the run-in period on pioglitazone monotherapy, patients were randomized to the addition of either 100 mg of JANUVIA or placebo, administered once daily. Patients who failed to meet specific glycemic goals during the studies were treated with metformin rescue. Glycemic endpoints measured included A1C and fasting glucose.

In combination with pioglitazone, JANUVIA provided significant improvements in A1C and FPG compared to placebo with pioglitazone (Table 4). Rescue therapy was used in 7% of patients treated with JANUVIA 100 mg and 14% of patients treated with placebo. There was no significant difference between JANUVIA and placebo in body weight change.

JANUVIA™
(sitagliptin phosphate) Tablets

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Table 4
Glycemic Parameters at Final Visit (24-Week Study)
for JANUVIA in Combination with Pioglitazone[†]

	JANUVIA 100 mg + Pioglitazone	Placebo + Pioglitazone
A1C (%)	N = 163	N = 174
Baseline (mean)	8.1	8.0
Change from baseline (adjusted mean [‡])	-0.9	-0.2
Difference from placebo + pioglitazone (adjusted mean [‡]) (95% CI)	-0.7 [§] (-0.9, -0.5)	
Patients (%) achieving A1C <7%	74 (45%)	40 (23%)
FPG (mg/dL)	N = 163	N = 174
Baseline (mean)	168	166
Change from baseline (adjusted mean [‡])	-17	1
Difference from placebo + pioglitazone (adjusted mean [‡]) (95% CI)	-18 [§] (-24, -11)	

[†] Intent to Treat Population using last observation on study prior to metformin rescue therapy.

[‡] Least squares means adjusted for prior antihyperglycemic therapy status and baseline value.

[§] p<0.001 compared to placebo + pioglitazone.

16 HOW SUPPLIED/STORAGE AND HANDLING

No. 6737 — Tablets JANUVIA, 25 mg, are pink, round, film-coated tablets with “221” on one side. They are supplied as follows:

- NDC 0006-0221-31** unit-of-use bottles of 30
- NDC 0006-0221-54** unit-of-use bottles of 90
- NDC 0006-0221-28** unit dose blister packages of 100.

No. 6738 — Tablets JANUVIA, 50 mg, are light beige, round, film-coated tablets with “112” on one side. They are supplied as follows:

- NDC 0006-0112-31** unit-of-use bottles of 30
- NDC 0006-0112-54** unit-of-use bottles of 90
- NDC 0006-0112-28** unit dose blister packages of 100.

No. 6739 — Tablets JANUVIA, 100 mg, are beige, round, film-coated tablets with “277” on one side. They are supplied as follows:

- NDC 0006-0277-31** unit-of-use bottles of 30
- NDC 0006-0277-54** unit-of-use bottles of 90
- NDC 0006-0277-28** unit dose blister packages of 100
- NDC 0006-0277-74** bottles of 500
- NDC 0006-0277-82** bottles of 1000.

Storage

Store at 20-25°C (68-77°F), excursions permitted to 15-30°C (59-86°F), [see USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION

[See FDA-Approved Patient Labeling (17.3).]

17.1 Instructions

Patients should be informed of the potential risks and benefits of JANUVIA and of alternative modes of therapy. Patients should also be informed about the importance of adherence to dietary instructions, regular physical activity, periodic blood glucose monitoring and A1C testing, recognition and management of hypoglycemia and hyperglycemia, and assessment for diabetes complications. During periods of stress such as fever, trauma, infection, or surgery, medication requirements may change and patients should be advised to seek medical advice promptly.

JANUVIA™
(sitagliptin phosphate) Tablets

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Physicians should instruct their patients to read the Patient Package Insert before starting JANUVIA therapy and to reread each time the prescription is renewed. Patients should be instructed to inform their doctor or pharmacist if they develop any unusual symptom, or if any known symptom persists or worsens.

17.2 Laboratory Tests

Patients should be informed that response to all diabetic therapies should be monitored by periodic measurements of blood glucose and A1C levels, with a goal of decreasing these levels towards the normal range. A1C is especially useful for evaluating long-term glycemic control. Patients should be informed of the potential need to adjust dose based on changes in renal function tests over time.

Manufactured for:

 **MERCK & CO., INC.**, Whitehouse Station, NJ 08889, USA

Manufactured by:

Merck Sharp & Dohme (Italia) S.p.A.
Via Emilia, 21
27100 – Pavia, Italy

Printed in USA

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US Patent No.: 6,699,871

17.3 FDA-Approved Patient Labeling

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Patient Information
JANUVIA™ (jah-NEW-vee-ah)
(sitagliptin phosphate)

Tablets

Read the Patient Information that comes with JANUVIA* before you start taking it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your doctor about your medical condition or treatment.

What is JANUVIA?

JANUVIA is a prescription medicine used along with diet and exercise to lower blood sugar in patients with type 2 diabetes mellitus (type 2 diabetes). JANUVIA may be taken alone or along with certain other medicines to control blood sugar.

- JANUVIA lowers blood sugar when blood sugar is high, especially after a meal. JANUVIA also lowers blood sugar between meals.
- JANUVIA helps to improve the levels of insulin produced by your own body after a meal.
- JANUVIA decreases the amount of sugar made by the body. JANUVIA is unlikely to cause your blood sugar to be lowered to a dangerous level (hypoglycemia) because it does not work when your blood sugar is low.

JANUVIA has not been studied in children under 18 years of age.

JANUVIA has not been studied with medicines known to cause low blood sugar, such as sulfonylureas or insulin. Ask your doctor if you are taking a sulfonylurea or other medicine that can cause low blood sugar.

Who should not take JANUVIA?

JANUVIA should not be used to treat patients with:

- Type 1 diabetes mellitus
- Diabetic ketoacidosis (increased ketones in the blood or urine).

What should I tell my doctor before and during treatment with JANUVIA?

Tell your doctor about all of your medical conditions, including if you:

- have any allergies
- have kidney problems
- are pregnant or plan to become pregnant, because JANUVIA may not be right for you. It is not known if JANUVIA will harm your unborn baby. If you are pregnant, talk with your doctor about the best way to control your blood sugar while you are pregnant. If you use JANUVIA during pregnancy, talk with your doctor about how you can be on the JANUVIA registry. The toll-free telephone number for the pregnancy registry is: 1-800-986-8999.
- are breast-feeding or plan to breast-feed. JANUVIA may be passed in your milk to your baby. Talk with your doctor about the best way to feed your baby if you are taking JANUVIA.

Tell your doctor about all the medicines you take, including prescription and non-prescription

medicines, vitamins, and herbal supplements.

Know the medicines you take. Keep a list of your medicines and show it to your doctor and pharmacist when you get a new medicine.

During periods of stress on the body, such as fever, trauma, infection or surgery, your medication needs may change; contact your doctor right away.

How should I take JANUVIA?

- Take JANUVIA exactly as your doctor tells you to take it.
- Take JANUVIA by mouth once a day.
- Take JANUVIA with or without food.
- If you have kidney problems, your doctor may prescribe lower doses of JANUVIA. Your doctor may perform blood tests on you from time to time to measure how well your kidneys are working.
- Your doctor may prescribe JANUVIA along with certain other medicines that lower blood sugar.

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 JANUVIA.

If you take too much JANUVIA, call your doctor or local Poison Control Center right away.

What else should I know about blood sugar control?

- Monitor your blood sugar as your doctor tells you to.
- Stay on your prescribed diet and exercise program while taking JANUVIA.
- Talk to your doctor about how to prevent, recognize and manage low blood sugar (hypoglycemia), high blood sugar (hyperglycemia), and complications of diabetes.
- Your doctor will monitor your diabetes with regular blood tests, including your blood sugar levels and your hemoglobin A1C.

What are the possible side effects of JANUVIA?

The most common side effects of JANUVIA include:

- Upper respiratory infection
- Stuffy or runny nose and sore throat
- Headache

JANUVIA may occasionally cause stomach discomfort and diarrhea.

Tell your doctor if you have any side effect that bothers you or that does not go away.

Other side effects may occur when using JANUVIA. For more information, ask your doctor or pharmacist.

How Should I store JANUVIA?

- Store JANUVIA at room temperature, 68 to 77°F (20 to 25°C).

Keep JANUVIA and all medicines out of the reach of children.

General information about the use of JANUVIA

Medicines are sometimes prescribed for conditions that are not mentioned in patient information leaflets. Do not use JANUVIA for a condition for which it was not prescribed. Do not give JANUVIA to other people, even if they have the same symptoms you have. It may harm them.

This leaflet summarizes the most important information about JANUVIA. If you would like to know more information, talk with your doctor. You can ask your doctor or pharmacist for additional information about JANUVIA that is written for health professionals. For more information go to www.JANUVIA.com OR CALL 1-800-622-4477.

What are the ingredients in JANUVIA?

Active ingredient: sitagliptin phosphate

Inactive ingredients: microcrystalline cellulose, anhydrous dibasic calcium phosphate, croscarmellose sodium, magnesium stearate, and sodium stearyl fumarate. The tablet film coating contains the following inactive ingredients: polyvinyl alcohol, polyethylene glycol, talc, titanium dioxide, red iron oxide, and yellow iron oxide.

What is type 2 diabetes?

Type 2 diabetes is a condition in which your body does not make enough insulin, and the insulin that your body produces does not work as well as it should. Your body can also make too much sugar. When this happens, sugar (glucose) builds 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 normal level. Lowering and controlling blood sugar may help prevent or delay complications of diabetes, such as heart disease, kidney disease, blindness, and amputation.

High blood sugar can be lowered by diet and exercise, and by certain medicines when necessary.

Issued [Month Year]

Manufactured for:

 **MERCK & CO., INC.**, Whitehouse Station, NJ 08889, USA

Manufactured by:

Merck Sharp & Dohme (Italia) S.p.A.
Via Emilia, 21
27100 – Pavia, Italy

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For the most current labeling information, please visit <https://www.fda.gov/d>

Januvia™ 25 mg
(sitagliptin phosphate) tablets

Each tablet contains 32.13 mg sitagliptin phosphate,
equivalent to 25 mg sitagliptin.

Store at 20-25°C (68-77°F).

[See USP Controlled Room Temperature.]

This is a bulk package and not intended for dispensing.
Package not child resistant.

100 Tablets



Januvia™ 25 mg
(sitagliptin phosphate) tablets

Manuf. for:



MERCK & CO., INC.

Whitehouse Station, NJ 08889, USA

Manuf. by:

Merck Sharp & Dohme (Italia) S.p.A.

Via Emilia, 21

27100 — Pavia, Italy

Formulated in Italy.



100 | No. 6737

9697200

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Januvia™ 25 mg
(sitagliptin phosphate) tablets

NDC 0006-0221-28

Rx only

Each tablet contains 32.13 mg sitagliptin phosphate,
equivalent to 25 mg sitagliptin.

See accompanying circular for dosage information.

Store at 20-25°C (68-77°F).

[See USP Controlled Room Temperature.]

This is a bulk package and not intended for dispensing.

Package not child resistant.

9697500

100 Tablets

221

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Januvia™ 50 mg

(sitagliptin phosphate) tablets

Each tablet contains 64.25 mg sitagliptin phosphate, equivalent to 50 mg sitagliptin.

Store at 20-25°C (68-77°F).

[See USP Controlled Room Temperature.]

This is a bulk package and not intended for dispensing. Package not child resistant.

100 Tablets

112

Januvia™ 50 mg

(sitagliptin phosphate) tablets

Manuf. for:



MERCK & CO., INC.

Whitehouse Station, NJ 08889, USA

Manuf. by:

Merck Sharp & Dohme (Italia) S.p.A.

Via Emilia, 21

27100 — Pavia, Italy

Formulated in Italy.



100 | No. 6738

9696600

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Januvia™ 50 mg

(sitagliptin phosphate) tablets

NDC 0006-0112-28

Rx only

Each tablet contains 64.25 mg sitagliptin phosphate,
equivalent to 50 mg sitagliptin.

See accompanying circular for dosage information.

Store at 20-25°C (68-77°F).

[See USP Controlled Room Temperature.]

This is a bulk package and not intended for dispensing.

Package not child resistant.

9696200

100 Tablets

112

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Januvia™ 100 mg

(sitagliptin phosphate) tablets

Each tablet contains 128.5 mg sitagliptin phosphate,
equivalent to 100 mg sitagliptin.

Store at 20-25°C (68-77°F).

[See USP Controlled Room Temperature.]

This is a bulk package and not intended for dispensing.
Package not child resistant.

100 Tablets

277

Januvia™ 100 mg

(sitagliptin phosphate) tablets

Manuf. for:



MERCK & CO., INC.

Whitehouse Station, NJ 08889, USA

Manuf. by:

Merck Sharp & Dohme (Italia) S.p.A.

Via Emilia, 21

27100 — Pavia, Italy

Formulated in Italy.



100 | No. 6739

9697300

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Januvia™ 100 mg

(sitagliptin phosphate) tablets

NDC 0006-0277-28

Rx only

Each tablet contains 128.5 mg sitagliptin phosphate, equivalent to 100 mg sitagliptin.

See accompanying circular for dosage information.

Store at 20-25°C (68-77°F).

[See USP Controlled Room Temperature.]

This is a bulk package and not intended for dispensing.

Package not child resistant.

9697900

100 Tablets

277

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<p>Januvia™ 25 mg (sitagliptin phosphate) tablets 9696900 Rx only</p> <p>Manuf. for: MERCK & CO., INC. LOT EXP:</p> <p>NDC 0006-0221-01</p> 	<p>Januvia™ 25 mg (sitagliptin phosphate) tablets 9696900 Rx only</p> <p>Manuf. for: MERCK & CO., INC. LOT EXP:</p> <p>NDC 0006-0221-01</p> 
 <p>NDC 0006-0221-01</p> <p>Manuf. for: MERCK & CO., INC. LOT EXP:</p> <p>9696900 Rx only</p> <p>Januvia™ 25 mg (sitagliptin phosphate) tablets</p>	 <p>NDC 0006-0221-01</p> <p>Manuf. for: MERCK & CO., INC. LOT EXP:</p> <p>9696900 Rx only</p> <p>Januvia™ 25 mg (sitagliptin phosphate) tablets</p>
<p>Januvia™ 25 mg (sitagliptin phosphate) tablets 9696900 Rx only</p> <p>Manuf. for: MERCK & CO., INC. LOT EXP:</p> <p>NDC 0006-0221-01</p> 	<p>Januvia™ 25 mg (sitagliptin phosphate) tablets 9696900 Rx only</p> <p>Manuf. for: MERCK & CO., INC. LOT EXP:</p> <p>NDC 0006-0221-01</p> 
 <p>NDC 0006-0221-01</p> <p>Manuf. for: MERCK & CO., INC. LOT EXP:</p> <p>9696900 Rx only</p> <p>Januvia™ 25 mg (sitagliptin phosphate) tablets</p>	 <p>NDC 0006-0221-01</p> <p>Manuf. for: MERCK & CO., INC. LOT EXP:</p> <p>9696900 Rx only</p> <p>Januvia™ 25 mg (sitagliptin phosphate) tablets</p>
<p>Januvia™ 25 mg (sitagliptin phosphate) tablets 9696900 Rx only</p> <p>Manuf. for: MERCK & CO., INC. LOT EXP:</p> <p>NDC 0006-0221-01</p> 	<p>Januvia™ 25 mg (sitagliptin phosphate) tablets 9696900 Rx only</p> <p>Manuf. for: MERCK & CO., INC. LOT EXP:</p> <p>NDC 0006-0221-01</p> 

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Januvia™ 25 mg
(sitagliptin phosphate) tablets

Manuf. for
MERCK & CO., INC.
Whitehouse Station, NJ 08889, USA

Manuf. by:
Merck Sharp & Dohme (Italia) S.p.A.
Via Emilia, 21
27100 — Pavia, Italy

Formulated in Italy.
Each tablet contains 32.13 mg sitagliptin phosphate,
equivalent to 25 mg sitagliptin.

30 Tablets

Lot

NDC 0006-0221-31

Store at 20-25°C (68-77°F).
[See USP Controlled Room Temperature.]

See accompanying circular for dosage information.

Rx only

221

9696500
30 | No. 6737

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Januvia™ 25 mg
(sitagliptin phosphate) tablets

Manuf. for:
MERCK & CO., INC.
Whitehouse Station, NJ 08889, USA
Manuf. by:
Merck Sharp & Dohme (Italia) S.p.A.
Via Emilia, 21
27100 — Pavia, Italy

Formulated in Italy.
Each tablet contains 32.13 mg sitagliptin phosphate,
equivalent to 25 mg sitagliptin.

90 Tablets
Lot

221

NDC 0006-0221-54

Store at 20-25°C (68-77°F).
[See USP Controlled Room Temperature.]

See accompanying circular for dosage information.

Rx only

9696700
90 | No. 6737

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<p>Januvia™ 50 mg (sitagliptin phosphate) tablets 9696100 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0112-01</p>  <p>LOT EXP.</p>	<p>Januvia™ 50 mg (sitagliptin phosphate) tablets 9696100 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0112-01</p>  <p>LOT EXP.</p>
<p>Januvia™ 50 mg (sitagliptin phosphate) tablets 9696100 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0112-01</p>  <p>LOT EXP.</p>	<p>Januvia™ 50 mg (sitagliptin phosphate) tablets 9696100 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0112-01</p>  <p>LOT EXP.</p>
<p>Januvia™ 50 mg (sitagliptin phosphate) tablets 9696100 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0112-01</p>  <p>LOT EXP.</p>	<p>Januvia™ 50 mg (sitagliptin phosphate) tablets 9696100 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0112-01</p>  <p>LOT EXP.</p>
<p>Januvia™ 50 mg (sitagliptin phosphate) tablets 9696100 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0112-01</p>  <p>LOT EXP.</p>	<p>Januvia™ 50 mg (sitagliptin phosphate) tablets 9696100 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0112-01</p>  <p>LOT EXP.</p>
<p>Januvia™ 50 mg (sitagliptin phosphate) tablets 9696100 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0112-01</p>  <p>LOT EXP.</p>	<p>Januvia™ 50 mg (sitagliptin phosphate) tablets 9696100 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0112-01</p>  <p>LOT EXP.</p>

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Januvia™ 50 mg
(sitagliptin phosphate) tablets

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Whitehouse Station, NJ 08889, USA
Manuf. by:
Merck Sharp & Dohme (Italia) S.p.A.
Via Emilia, 21
27100 — Pavia, Italy

Formulated in Italy.
Each tablet contains 64.25 mg sitagliptin phosphate, equivalent to 50 mg sitagliptin.

30 Tablets

Lot

112

NDC 0006-0112-31

Store at 20-25°C (68-77°F).
[See USP Controlled Room Temperature.]

See accompanying circular for dosage information.

Rx only

9695700
30 | No. 6738

This label may not be the latest approved by FDA.
For current labeling information, please visit <https://www.fda.gov/drugsatf>

Januvia™ 50 mg
(sitagliptin phosphate) tablets

Manufactured for:
MERCK & CO., INC.
Whitehouse Station, NJ 08889, USA

Manufactured by:
Merck Sharp & Dohme (Italia) S.p.A.
Via Emilia, 21
27100 — Pavia, Italy

Formulated in Italy.

Each tablet contains 64.25 mg sitagliptin phosphate, equivalent to 50 mg sitagliptin.

90 Tablets

Lot

NDC 0006-0112-54

Store at 20-25°C (68-77°F).
[See USP Controlled Room Temperature.]

See accompanying circular for dosage information.

Rx only

9695900
90 | No. 6738

112

This label may not be the latest approved by FDA.
For the most current labeling information, please visit <https://www.fda.gov/drugs>

<p>Januvia™ 100 mg (sitagliptin phosphate) tablets 9697800 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0277-01</p>  <p>LOT EXP:</p>	<p>Januvia™ 100 mg (sitagliptin phosphate) tablets 9697800 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0277-01</p>  <p>LOT EXP:</p>
<p>Januvia™ 100 mg (sitagliptin phosphate) tablets 9697800 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0277-01</p>  <p>LOT EXP:</p>	<p>Januvia™ 100 mg (sitagliptin phosphate) tablets 9697800 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0277-01</p>  <p>LOT EXP:</p>
<p>Januvia™ 100 mg (sitagliptin phosphate) tablets 9697800 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0277-01</p>  <p>LOT EXP:</p>	<p>Januvia™ 100 mg (sitagliptin phosphate) tablets 9697800 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0277-01</p>  <p>LOT EXP:</p>
<p>Januvia™ 100 mg (sitagliptin phosphate) tablets 9697800 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0277-01</p>  <p>LOT EXP:</p>	<p>Januvia™ 100 mg (sitagliptin phosphate) tablets 9697800 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0277-01</p>  <p>LOT EXP:</p>
<p>Januvia™ 100 mg (sitagliptin phosphate) tablets 9697800 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0277-01</p>  <p>LOT EXP:</p>	<p>Januvia™ 100 mg (sitagliptin phosphate) tablets 9697800 Rx only</p> <p>Manuf. for: MERCK & CO., INC.</p> <p>NDC 0006-0277-01</p>  <p>LOT EXP:</p>

This label may not be the latest approved by FDA.

For current labeling information, please visit <https://www.fda.gov/drugsatfda>

Januvia™ 100 mg
(sitagliptin phosphate) tablets

Manuf. for:
MERCK & CO., INC.
Whitehouse Station, NJ 08889, USA

Manuf. by:
Merck Sharp & Dohme (Italia) S.p.A.
Via Emilia, 21
27100 — Pavia, Italy

Formulated in Italy.
Each tablet contains 128.5 mg
sitagliptin phosphate,
equivalent to 100 mg sitagliptin.

30 Tablets

Lot

277

NDC 0006-0277-31

Store at 20-25°C (68-77°F).
[See USP Controlled Room Temperature.]

See accompanying circular for dosage information.

Rx only

9697400
30 | No. 6739

0 0 0 0 6 7 3 1 3

This label may not be the latest approved by FDA.

For current labeling information, please visit <https://www.fda.gov/drugsatfda>

Januvia™ 100 mg
(sitagliptin phosphate) tablets

Manuf. for:
MERCK & CO., INC.
Whitehouse Station, NJ 08889, USA
Manuf. by:
Merck Sharp & Dohme (Italia) S.p.A.
Via Emilia, 21
27100 — Pavia, Italy

Formulated in Italy.
Each tablet contains 128.5 mg
sitagliptin phosphate,
equivalent to 100 mg sitagliptin.

90 Tablets

Lot

NDC 0006-0277-54

Store at 20-25°C (68-77°F).
[See USP Controlled Room Temperature.]

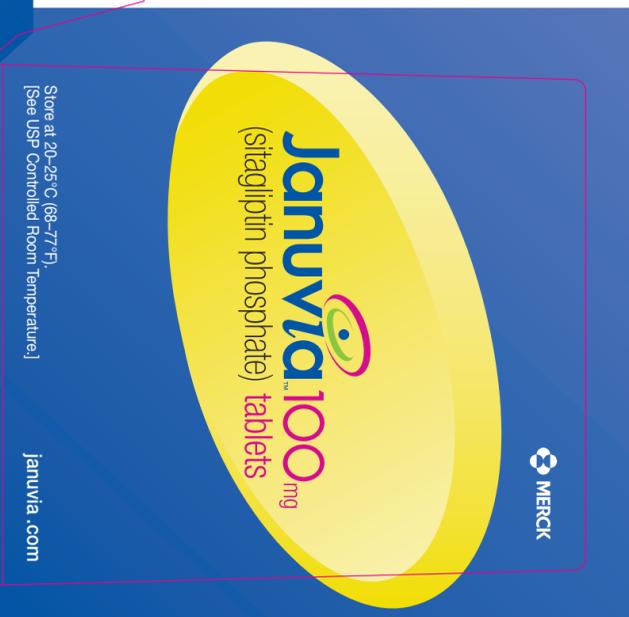
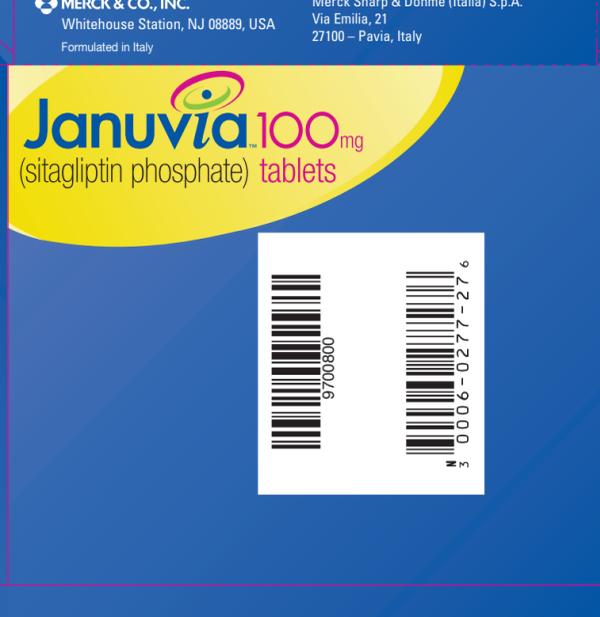
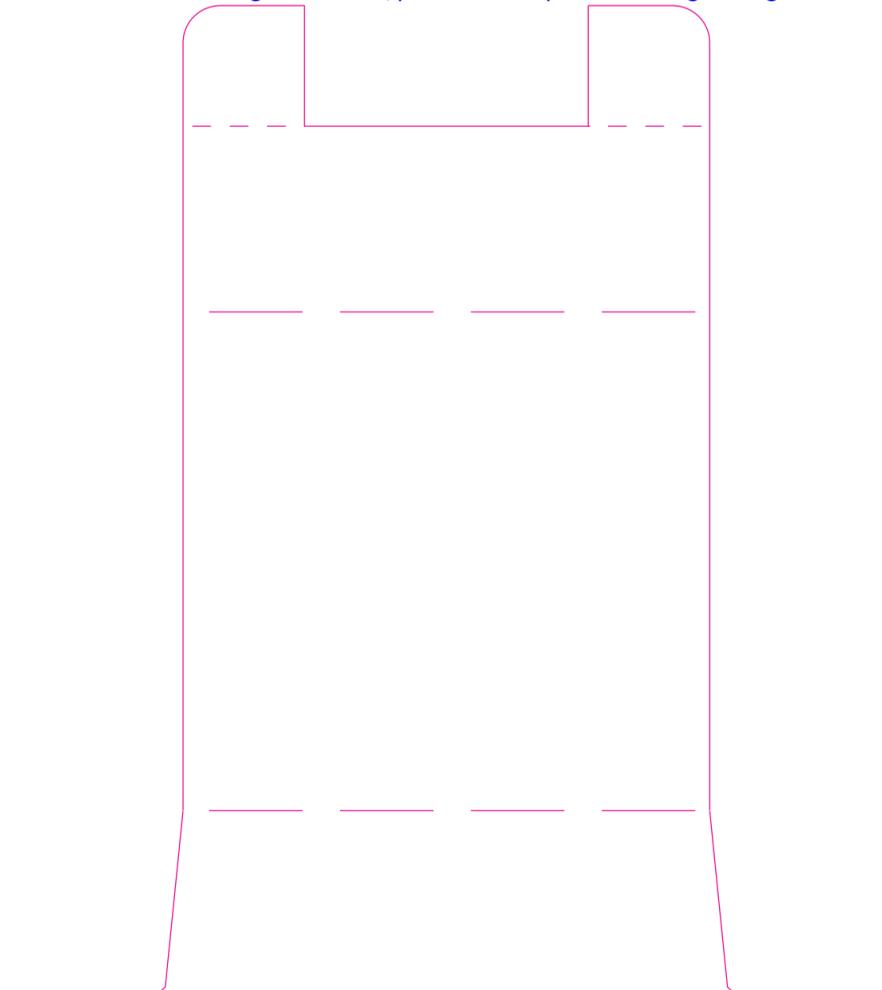
See accompanying circular for dosage information.

Rx only

277

9697600
90 | No. 6739

0006027754



This label may not be the latest approved by FDA.
For current labeling information, please visit <https://www.fda.gov/drugsatfda>

Januvia™ 100 mg
(sitagliptin phosphate) tablets
januvia.com
9714200

Januvia™ 100 mg
(sitagliptin phosphate) tablets
januvia.com
9714200

Januvia™
(sitagliptin phosphate)

Januvia™ 100 mg
(sitagliptin phosphate) tablets
januvia.com
9714200

Januvia™ 100 mg
(sitagliptin phosphate) tablets
januvia.com
9714200

Januvia™
(sitagliptin phosphate)



This label may not be the latest approved by FDA.
For current labeling information, please visit <https://www.fda.gov/drugsatfda>

Sample-Not For Sale 7 Tablets No. 6739

Januvia[™] 100^{mg}
(sitagliptin phosphate) tablets

Each tablet contains
128.5 mg sitagliptin phosphate,
equivalent to 100 mg sitagliptin.

See accompanying circular for
dosage information.

Rx only

Package not child resistant. Keep this and
all drugs out of the reach of children.
Store at 20–25 °C (68–77 °F). [See USP
Controlled Room Temperature.]

Manuf. for: **MERCK & CO., INC.**
Whitehouse Station, NJ 08889, USA

Manuf. by: Merck Sharp & Dohme (Italia) S.p.A.
Via Emilia, 21
27100 – Pavia, Italy 9700900

277


3 0006-0277-276