

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

TOUJEO (insulin glargine injection) U-300, for subcutaneous use
Initial U.S. Approval: 2015

RECENT MAJOR CHANGES

Dosage and Administration (2.1) 11/2019
Warnings and Precautions (5.2) 11/2019

INDICATIONS AND USAGE

TOUJEO is a long-acting human insulin analog indicated to improve glycemic control in adults with diabetes mellitus. (1)

Limitations of Use:

Not recommended for treating diabetic ketoacidosis. (1)

DOSAGE AND ADMINISTRATION

- Individualize dose based on type of diabetes, metabolic needs, blood glucose monitoring results and glycemic control goal. (2.1, 2.2, 2.3)
- Administer subcutaneously into the abdominal area, thigh, or deltoid once daily at any time during the day, at the same time every day. (2.1)
- Rotate injection sites to reduce risk of lipodystrophy and localized cutaneous amyloidosis. (2.1)
- Do not dilute or mix with any other insulin or solution. (2.1)
- Closely monitor glucose when changing to TOUJEO and during initial weeks thereafter. (2.3)

DOSAGE FORMS AND STRENGTHS

Injection: 300 units/mL insulin glargine in:

- 1.5 mL TOUJEO SoloStar single-patient-use prefilled pen (3)
- 3 mL TOUJEO Max SoloStar single-patient-use prefilled pen (3)

CONTRAINDICATIONS

- During episodes of hypoglycemia (4)
- Hypersensitivity to TOUJEO or one of its excipients (4)

WARNINGS AND PRECAUTIONS

- *Never share* a TOUJEO SoloStar or TOUJEO Max SoloStar disposable prefilled pen between patients, even if the needle is changed. (5.1)
- *Hyperglycemia or hypoglycemia with changes in insulin regimen:* Make changes to a patient's insulin regimen (e.g., insulin strength, manufacturer,

- type, injection site or method of administration) under close medical supervision with increased frequency of blood glucose monitoring. (5.2)
- *Hypoglycemia:* May be life-threatening. Increase frequency of glucose monitoring with changes to: insulin dosage, coadministered glucose-lowering medications, meal pattern, physical activity, and in patients with renal impairment or hepatic impairment or hypoglycemia unawareness. (5.3, 6.1)
- *Medication errors:* Accidental mix-ups between insulin products can occur. Instruct patients to check insulin labels before injection. (5.4)
- *Hypersensitivity reactions:* Severe, life-threatening, generalized allergy, including anaphylaxis, can occur. Discontinue TOUJEO, monitor and treat if indicated. (5.5, 6.1)
- *Hypokalemia:* May be life-threatening. Monitor potassium levels in patients at risk of hypokalemia and treat if indicated. (5.6)
- *Fluid retention and heart failure with concomitant use of Thiazolidinediones (TZDs):* Observe for signs and symptoms of heart failure; consider dosage reduction or discontinuation if heart failure occurs. (5.7)

ADVERSE REACTIONS

Adverse reactions commonly associated with TOUJEO (≥5%) are:

- Hypoglycemia, allergic reactions, injection site reaction, lipodystrophy, pruritus, rash, edema, and weight gain. (6.1, 6.2)

To report SUSPECTED ADVERSE REACTIONS, contact sanofi-aventis at 1-800-633-1610 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- *Drugs that affect glucose metabolism:* Adjustment of insulin dosage may be needed; closely monitor blood glucose. (7)
- *Antiadrenergic drugs (e.g., beta-blockers, clonidine, guanethidine, and reserpine):* Signs and symptoms of hypoglycemia may be reduced or absent. (7)

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

Revised: 11/2019

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

TOUJEO is indicated to improve glycemic control in adults with diabetes mellitus.

Limitations of Use:

TOUJEO is not recommended for the treatment of diabetic ketoacidosis.

2 DOSAGE AND ADMINISTRATION

2.1 General Dosing and Administration Instructions

- TOUJEO is available in 2 disposable prefilled pens:
 - TOUJEO SoloStar contains 450 units of TOUJEO U-300. It delivers doses in 1 unit increments and can deliver up to 80 units in a single injection.
 - TOUJEO Max SoloStar contains 900 units of TOUJEO U-300. It delivers doses in 2 unit increments and can deliver up to 160 units in a single injection. It is recommended for patients requiring at least 20 units per day.
- Inject TOUJEO subcutaneously once a day into the abdominal area, thigh, or deltoid at the same time each day.
- Rotate injection sites within the same region from one injection to the next to reduce the risk of lipodystrophy and localized cutaneous amyloidosis. Do not inject into areas of lipodystrophy or localized cutaneous amyloidosis [*see Warnings and Precautions (5.2), Adverse Reactions (6)*].
- During changes to a patient's insulin regimen, increase the frequency of blood glucose monitoring [*see Warnings and Precautions (5.2)*].
- Individualize and titrate the dosage of TOUJEO based on the individual's metabolic needs, blood glucose monitoring results, and glycemic control goal.
- To minimize the risk of hypoglycemia, titrate the dose of TOUJEO no more frequently than every 3 to 4 days.
- Dosage adjustments may be needed with changes in physical activity, changes in meal patterns (i.e., macronutrient content or timing of food intake), changes in renal or hepatic function or during acute illness to minimize the risk of hypoglycemia or hyperglycemia [*see Warnings and Precautions (5.2) and Use in Specific Populations (8.6, 8.7)*].
- Use TOUJEO with caution in patients with visual impairment who may rely on audible clicks to dial their dose.

2.2 Starting Dose in Insulin-Naive Patients

Type 1 Diabetes

- The recommended starting dose of TOUJEO in insulin-naive patients with type 1 diabetes is approximately one-third to one-half of the total daily insulin dose. The remainder of the total daily insulin dose should be given as a short-acting insulin and divided between each daily meal. As a general rule, 0.2 to 0.4 units of insulin per kilogram of body weight can be used to

calculate the initial total daily insulin dose in insulin-naive patients with type 1 diabetes.

- The maximum glucose lowering effect of a dose of TOUJEO may take five days to fully manifest and the first TOUJEO dose may be insufficient to cover metabolic needs in the first 24 hours of use [see *Clinical Pharmacology (12.2)*]. To minimize risks associated with insufficient insulinization when initiating TOUJEO, monitor glucose daily, titrate TOUJEO per instructions, and adjust coadministered glucose-lowering therapies per standard of care.

Type 2 Diabetes

- The recommended starting dose of TOUJEO in insulin-naive patients with type 2 diabetes is 0.2 units per kilogram of body weight once daily. The dosage of other antidiabetic drugs may need to be adjusted when starting TOUJEO to minimize the risk of hypoglycemia [see *Warnings and Precautions (5.3)*].

2.3 Starting Dose in Patients with Either Type 1 or Type 2 Diabetes Already on Insulin Therapy

- To minimize the risk of hypoglycemia when changing patients from a once-daily long-acting or intermediate-acting insulin product to TOUJEO, the starting dose of TOUJEO can be the same as the once-daily long-acting dose. For patients controlled on LANTUS (insulin glargine, 100 units/mL) expect that a higher daily dose of TOUJEO will be needed to maintain the same level of glycemic control [see *Clinical Pharmacology (12.2)* and *Clinical Studies (14.1)*].
- To minimize the risk of hypoglycemia when changing patients from twice-daily NPH insulin to once-daily TOUJEO, the recommended starting TOUJEO dose is 80% of the total daily NPH dosage.
- To minimize the risk of hyperglycemia when changing patients to TOUJEO, monitor glucose frequently in the first weeks of therapy titrate the dose of TOUJEO per instructions and the dose of other glucose-lowering therapies per standard of care [see *Warnings and Precautions (5.2)* and *Clinical Pharmacology (12.2)*].

2.4 Important Administration Instructions

- Always check insulin labels before administration [see *Warnings and Precautions (5.4)*].
- When changing between TOUJEO SoloStar and TOUJEO Max SoloStar, if the patient's previous dose was an odd number, the dose should be increased or decreased by 1 unit.
- The dose counter of the TOUJEO SoloStar or TOUJEO Max SoloStar disposable prefilled pen shows the number of units of TOUJEO to be injected and no conversion is required.
- Instruct patients to visually inspect the TOUJEO solution for particulate matter and discoloration prior to administration and only use if the solution is clear and colorless with no visible particles.
- Do not administer TOUJEO intravenously, intramuscularly, or in an insulin pump.
- Do not dilute or mix TOUJEO with any other insulin products or solutions.
- Never transfer TOUJEO from the cartridges of the TOUJEO SoloStar or TOUJEO Max SoloStar prefilled pen into a syringe for administration [see *Warnings and Precautions*

(5.4)].

3 DOSAGE FORMS AND STRENGTHS

Injection: 300 units per mL of insulin glargine available as a clear, colorless, solution in:

- 1.5 mL TOUJEO SoloStar single-patient-use prefilled pen (450 units/1.5 mL).
- 3 mL TOUJEO Max SoloStar single-patient-use prefilled pen (900 units/3 mL).

4 CONTRAINDICATIONS

TOUJEO is contraindicated:

- During episodes of hypoglycemia [*see Warnings and Precautions (5.3)*].
- In patients with hypersensitivity to insulin glargine or one of its excipients [*see Warnings and Precautions (5.5)*].

5 WARNINGS AND PRECAUTIONS

5.1 Never Share a TOUJEO SoloStar or TOUJEO Max SoloStar Pen Between Patients

TOUJEO SoloStar or TOUJEO Max SoloStar disposable prefilled pens must never be shared between patients, even if the needle is changed. Pen sharing poses a risk for transmission of blood-borne pathogens.

5.2 Hyperglycemia or Hypoglycemia with Changes in Insulin Regimen

Changes in Insulin Regimen Including Changes to Administration Site

Changes in an insulin regimen (e.g., insulin strength, manufacturer, type, injection site or method of administration) may affect glycemic control and predispose to hypoglycemia [*see Warnings and Precautions (5.3)*] or hyperglycemia. Repeated insulin injections into areas of lipodystrophy or localized cutaneous amyloidosis have been reported to result in hyperglycemia; and a sudden change in the injection site (to unaffected area) has been reported to result in hypoglycemia [*see Adverse Reactions (6)*].

Make any changes to a patient's insulin regimen under close medical supervision with increased frequency of blood glucose monitoring. Advise patients who have repeatedly injected into areas of lipodystrophy or localized cutaneous amyloidosis to change the injection site to unaffected areas and closely monitor for hypoglycemia. For patients with type 2 diabetes, dosage adjustments of concomitant oral antidiabetic products may be needed.

Changing to TOUJEO from other Insulins

On a unit-to-unit basis, TOUJEO has a lower glucose lowering effect than LANTUS [*see Clinical Pharmacology (12.2)*]. In clinical trials, patients who changed to TOUJEO from other basal insulins experienced higher average fasting plasma glucose levels in the first weeks of therapy compared to patients who were changed to LANTUS. Higher doses of TOUJEO were

required to achieve similar levels of glucose control compared to LANTUS in clinical trials [see *Clinical Studies (14.1)*].

The onset of action of TOUJEO develops over 6 hours following an injection. In type 1 diabetes patients treated with IV insulin, consider the longer onset of action of TOUJEO before stopping IV insulin. The full glucose lowering effect may not be apparent for at least 5 days [see *Dosage and Administration (2.2)* and *Clinical Pharmacology (12.2)*].

To minimize the risk of hyperglycemia when initiating TOUJEO monitor glucose daily, titrate TOUJEO as described in this prescribing information, and adjust coadministered glucose-lowering therapies per standard of care [see *Dosage and Administration (2.2, 2.3)*].

5.3 Hypoglycemia

Hypoglycemia is the most common adverse reaction associated with insulin, including TOUJEO. Severe hypoglycemia can cause seizures, may be life-threatening, or cause death. Hypoglycemia can impair concentration ability and reaction time; this may place an individual and others at risk in situations where these abilities are important (e.g., driving, or operating other machinery). Hypoglycemia can happen suddenly and symptoms may differ in each individual and change over time in the same individual. Symptomatic awareness of hypoglycemia may be less pronounced in patients with longstanding diabetes, in patients with diabetic nerve disease, in patients using medications that block the sympathetic nervous system (e.g., beta-blockers) [see *Drug Interactions (7)*], or in patients who experience recurrent hypoglycemia.

Risk Factors for Hypoglycemia

The timing of hypoglycemia usually reflects the time-action profile of the administered insulin formulation. As with all insulin preparations, the glucose lowering effect time course of TOUJEO may vary in different individuals or at different times in the same individual and depends on many conditions, including the area of injection as well as the injection site blood supply and temperature [see *Clinical Pharmacology (12.2)*]. Other factors which may increase the risk of hypoglycemia include changes in meal pattern (e.g., macronutrient content or timing of meals), changes in level of physical activity, or changes to coadministered medication [see *Drug Interactions (7)*]. Patients with renal or hepatic impairment may be at higher risk of hypoglycemia [see *Use in Specific Populations (8.6, 8.7)*].

Risk Mitigation Strategies for Hypoglycemia

Patients and caregivers must be educated to recognize and manage hypoglycemia. Self-monitoring of blood glucose plays an essential role in the prevention and management of hypoglycemia. In patients at higher risk for hypoglycemia and patients who have reduced symptomatic awareness of hypoglycemia, increased frequency of blood glucose monitoring is recommended. To minimize the risk of hypoglycemia do not administer TOUJEO intravenously, intramuscularly, or in an insulin pump, or dilute or mix TOUJEO with any other insulin products or solutions.

5.4 Medication Errors

Accidental mix-ups between basal insulin products and other insulins, particularly rapid-acting insulins, have been reported. To avoid medication errors between TOUJEO and other insulins, instruct patients to always check the insulin label before each injection.

To avoid dosing errors and potential overdose, never use a syringe to remove TOUJEO from the TOUJEO SoloStar or TOUJEO Max SoloStar prefilled pen into a syringe [see *Dosage and Administration* (2.4) and *Warnings and Precautions* (5.3)].

5.5 Hypersensitivity and Allergic Reactions

Severe, life-threatening, generalized allergy, including anaphylaxis, can occur with insulin products, including TOUJEO. If hypersensitivity reactions occur, discontinue TOUJEO; treat per standard of care and monitor until symptoms and signs resolve [see *Adverse Reactions* (6)]. TOUJEO is contraindicated in patients who have had hypersensitivity reactions to insulin glargine or other of the excipients [see *Contraindications* (4)].

5.6 Hypokalemia

All insulin products, including TOUJEO, cause a shift in potassium from the extracellular to intracellular space, possibly leading to hypokalemia. Untreated hypokalemia may cause respiratory paralysis, ventricular arrhythmia, and death. Monitor potassium levels in patients at risk for hypokalemia, if indicated (e.g., patients using potassium-lowering medications, patients taking medications sensitive to serum potassium concentrations).

5.7 Fluid Retention and Heart Failure with Concomitant Use of PPAR-gamma Agonists

Thiazolidinediones (TZDs), which are peroxisome proliferator-activated receptor (PPAR)-gamma agonists, can cause dose-related fluid retention, particularly when used in combination with insulin. Fluid retention may lead to or exacerbate heart failure. Patients treated with insulin, including TOUJEO, and a PPAR-gamma agonist should be observed for signs and symptoms of heart failure. If heart failure develops, it should be managed according to current standards of care, and discontinuation or dose reduction of the PPAR-gamma agonist must be considered.

6 ADVERSE REACTIONS

The following adverse reactions are discussed elsewhere:

- Hypoglycemia [see *Warnings and Precautions* (5.3)]
- Medication errors [see *Warnings and Precautions* (5.4)]
- Hypersensitivity and allergic reactions [see *Warnings and Precautions* (5.5)]
- Hypokalemia [see *Warnings and Precautions* (5.6)]

6.1 Clinical Trials Experience

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 actually observed in clinical practice.

The data in Table 1 reflect the exposure of 304 patients with type 1 diabetes to TOUJEO with mean exposure duration of 23 weeks. The type 1 diabetes population had the following characteristics: Mean age was 46 years and mean duration of diabetes was 21 years. Fifty-five percent were male, 86% were Caucasian, 5% were Black or African American, and 5% were Hispanic. At baseline, the mean eGFR was 82 mL/min/1.73 m² and 35% of patients had eGFR ≥90 mL/min/1.73 m². The mean BMI was 28 kg/m². HbA1c at baseline was greater or equal to 8% in 58% of patients.

The data in Table 2 reflect the exposure of 1242 patients with type 2 diabetes to TOUJEO with mean exposure duration of 25 weeks. The type 2 diabetes population had the following characteristics: Mean age was 59 years and mean duration of diabetes was 13 years. Fifty-three percent were male, 88% were Caucasian, 7% were Black or African American, and 17% were Hispanic. At baseline, mean eGFR was 79 mL/min/1.73 m² and 27% of patients had an eGFR ≥90 mL/min/1.73 m². The mean BMI was 35 kg/m². HbA1c at baseline was greater or equal to 8% in 66% of patients.

Common adverse reactions were defined as reactions occurring in ≥5% of the population studied.

Common adverse reactions occurring for TOUJEO-treated subjects during clinical trials in patients with type 1 diabetes mellitus and type 2 diabetes mellitus are listed in Table 1 and Table 2, respectively. Hypoglycemia is discussed in a dedicated subsection below.

Table 1: Adverse Reactions in Two Pooled Clinical Trials of 26 Weeks and 16 Weeks Duration in Adults with Type 1 Diabetes (with incidence ≥5%)

	TOUJEO + Mealtime Insulin*, % (n=304)
Nasopharyngitis	12.8
Upper respiratory tract infection	9.5

*“mealtime insulin” refers to insulin glulisine, insulin lispro, or insulin aspart.

Table 2: Adverse Reactions in Three Pooled Clinical Trials of 26 Weeks Duration in Adults with Type 2 Diabetes (with incidence ≥5%)

	TOUJEO*, % (n=1242)
Nasopharyngitis	7.1
Upper respiratory tract infection	5.7

* one of the trials in type 2 diabetes included mealtime insulin.

Hypoglycemia

Hypoglycemia is the most commonly observed adverse reaction in patients using insulin, including TOUJEO [see *Warnings and Precautions (5.3)*]. In the TOUJEO program, severe hypoglycemia was defined as an event requiring assistance of another person to administer a resuscitative action and documented symptomatic hypoglycemia was defined as an event with typical symptoms of hypoglycemia accompanied by a self-monitored or plasma glucose value equal to or less than 54 mg/dL.

The incidence of severe hypoglycemia in patients with type 1 diabetes receiving TOUJEO as part

of a multiple daily injection regimen was 6.6% at 26 weeks. The incidence of documented symptomatic hypoglycemia was 69% at 26 weeks. There were no clinically important differences in hypoglycemia between TOUJEO and LANTUS among type 1 diabetes patients.

The incidence of severe hypoglycemia in patients with type 2 diabetes was 5% at 26 weeks in patients receiving TOUJEO as part of a multiple daily injection regimen, and 1.0% and 0.9% respectively at 26 weeks in the two studies where patients received TOUJEO as part of a basal-insulin only regimen. The incidence of documented symptomatic hypoglycemia in patients with type 2 diabetes receiving TOUJEO ranged from 8% to 37% at 26 weeks and the highest risk was again seen in patients receiving TOUJEO as part of a multiple daily injection regimen.

Insulin Initiation and Intensification of Glucose Control

Intensification or rapid improvement in glucose control has been associated with a transitory, reversible ophthalmologic refraction disorder, worsening of diabetic retinopathy, and acute painful peripheral neuropathy. However, long-term glycemic control decreases the risk of diabetic retinopathy and neuropathy.

Peripheral Edema

Insulin, including TOUJEO, may cause sodium retention and edema, particularly if previously poor metabolic control is improved by intensified insulin therapy.

Lipodystrophy

Long-term use of insulin, including TOUJEO, can cause lipoatrophy (depression in the skin) or lipohypertrophy (enlargement or thickening of tissue) in some patients and may affect insulin absorption [*see Dosage and Administration (2.1)*].

Weight Gain

Weight gain has occurred with some insulin therapies including TOUJEO and has been attributed to the anabolic effects of insulin and the decrease in glucosuria.

Allergic Reactions

Some patients taking insulin therapy, including TOUJEO have experienced erythema, local edema, and pruritus at the site of injection. These conditions were usually self-limiting.

Severe cases of generalized allergy (anaphylaxis) have been reported [*see Warnings and Precautions (5.5)*].

Cardiovascular Safety

No clinical studies to establish the cardiovascular safety of TOUJEO have been conducted. A cardiovascular outcomes trial, ORIGIN, has been conducted with LANTUS. It is unknown whether the results of ORIGIN can be applied to TOUJEO.

The Outcome Reduction with Initial Glargine Intervention trial (i.e., ORIGIN) was an open-label, randomized, 12,537 patient study that compared LANTUS to standard care on the time to first occurrence of a major adverse cardiovascular event (MACE). MACE was defined as the composite of CV death, nonfatal myocardial infarction and nonfatal stroke. The incidence of MACE was similar between LANTUS and standard care in ORIGIN (Hazard Ratio [95% CI] for MACE; 1.02 [0.94, 1.11]).

In the ORIGIN trial, the overall incidence of cancer (all types combined) (Hazard Ratio [95%

CI]; 0.99 [0.88, 1.11]) or death from cancer (Hazard Ratio [95% CI]; 0.94 [0.77, 1.15]) was also similar between treatment groups.

6.2 Immunogenicity

As with all therapeutic proteins, there is potential for immunogenicity.

In a 6-month study of type 1 diabetes patients, 79% of patients who received TOUJEO once daily were positive for anti-insulin antibodies (AIA) at least once during the study, including 62% that were positive at baseline and 44% of patients who developed antidrug antibody (i.e., anti-insulin glargine antibody [ADA]) during the study. Eighty percent of the AIA-positive patients on TOUJEO with antibody test at baseline remained AIA positive at month 6.

In two 6-month studies in type 2 diabetes patients, 25% of patients who received TOUJEO once daily were positive for AIA at least once during the study, including 42% who were positive at baseline and 20% of patients who developed ADA during the study. Ninety percent of the AIA-positive patients on TOUJEO with antibody test at baseline, remained AIA positive at month 6.

The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay and may be influenced by several factors such as: assay methodology, sample handling, timing of sample collection, concomitant medication, and underlying disease. For these reasons, comparison of the incidence of antibodies to TOUJEO with the incidence of antibodies in other studies or to other products may be misleading.

6.3 Postmarketing Experience

The following additional adverse reactions have been identified during postapproval use of TOUJEO. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Localized cutaneous amyloidosis at the injection site has occurred. Hyperglycemia has been reported with repeated insulin injections into areas of localized cutaneous amyloidosis; hypoglycemia has been reported with a sudden change to an unaffected injection site.

7 DRUG INTERACTIONS

Table 3 includes clinically significant drug interactions with TOUJEO.

Table 3: Clinically Significant Drug Interactions with TOUJEO

Drugs That May Increase the Risk of Hypoglycemia	
<i>Drugs:</i>	Antidiabetic agents, ACE inhibitors, angiotensin II receptor blocking agents, disopyramide, fibrates, fluoxetine, monoamine oxidase inhibitors, pentoxifylline, pramlintide, salicylates, somatostatin analogs (e.g., octreotide), and sulfonamide antibiotics, GLP-1 receptor agonists, DPP-4 inhibitors, and SGLT-2 inhibitors.
<i>Intervention:</i>	Dose reductions and increased frequency of glucose monitoring may be required when TOUJEO is coadministered with these drugs.
Drugs That May Decrease the Blood Glucose Lowering Effect of TOUJEO	
<i>Drugs:</i>	Atypical antipsychotics (e.g., olanzapine and clozapine), corticosteroids, danazol, diuretics, estrogens, glucagon, isoniazid, niacin, oral contraceptives, phenothiazines, progestogens (e.g., in oral contraceptives), protease inhibitors, somatropin, sympathomimetic agents (e.g., albuterol, epinephrine, terbutaline), and thyroid hormones.

<i>Intervention:</i>	Dose increases and increased frequency of glucose monitoring may be required when TOUJEO is coadministered with these drugs.
Drugs That May Increase or Decrease the Blood Glucose Lowering Effect of TOUJEO	
<i>Drugs:</i>	Alcohol, beta-blockers, clonidine, and lithium salts. Pentamidine may cause hypoglycemia, which may sometimes be followed by hyperglycemia.
<i>Intervention:</i>	Dose adjustment and increased frequency of glucose monitoring may be required when TOUJEO is coadministered with these drugs.
Drugs That May Blunt Signs and Symptoms of Hypoglycemia	
<i>Drugs:</i>	Beta-blockers, clonidine, guanethidine, and reserpine.
<i>Intervention:</i>	Increased frequency of glucose monitoring may be required when TOUJEO is coadministered with these drugs.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Published studies with use of insulin glargine during pregnancy have not reported a clear association with insulin glargine and adverse developmental outcomes [see *Data*]. There are risks to the mother and fetus associated with poorly controlled diabetes in pregnancy [see *Clinical Considerations*].

Rats and rabbits were exposed to insulin glargine in animal reproduction studies during organogenesis, respectively 50 times and 10 times the human subcutaneous dose of 0.2 unit/kg/day. Overall, the effects of insulin glargine did not generally differ from those observed with regular human insulin [see *Data*].

The estimated background risk of major birth defects is 6% to 10% in women with pregestational diabetes with an HbA1c >7 and has been reported to be as high as 20% to 25% in women with a HbA1c >10. The estimated background risk of miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Clinical Considerations

Disease-associated maternal and/or embryo/fetal risk

Poorly controlled diabetes in pregnancy increases the maternal risk for diabetic ketoacidosis, preeclampsia, spontaneous abortions, preterm delivery, and delivery complications. Poorly controlled diabetes increases the fetal risk for major birth defects, stillbirth, and macrosomia-related morbidity.

Data

Human data

Published data do not report a clear association with insulin glargine and major birth defects, miscarriage, or adverse maternal or fetal outcomes when insulin glargine is used during pregnancy. However, these studies cannot definitely establish the absence of any risk because of methodological limitations including small sample size and some lacking comparator groups.

Animal data

Subcutaneous reproduction and teratology studies have been performed with insulin glargine and regular human insulin in rats and Himalayan rabbits. Insulin glargine was given to female rats before mating, during mating, and throughout pregnancy at doses up to 0.36 mg/kg/day, which is approximately 50 times the recommended human subcutaneous starting dose of 0.2 Units/kg/day (0.007 mg/kg/day). In rabbits, doses of 0.072 mg/kg/day, which is approximately 10 times the recommended human subcutaneous starting dose of 0.2 Units/kg/day (0.007 mg/kg/day), were administered during organogenesis. The effects of insulin glargine did not generally differ from those observed with regular human insulin in rats or rabbits. However, in rabbits, five fetuses from two litters of the high-dose group exhibited dilation of the cerebral ventricles. Fertility and early embryonic development appeared normal.

8.2 Lactation

Risk Summary

There are either no or only limited data on the presence of insulin glargine in human milk, the effects on breastfed infant, or the effects on milk production. Endogenous insulin is present in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for TOUJEO, and any potential adverse effects on the breastfed child from TOUJEO or from the underlying maternal condition.

8.4 Pediatric Use

The safety and effectiveness of TOUJEO have not been established in pediatric patients.

8.5 Geriatric Use

In controlled clinical studies, 30 of 304 (9.8%) TOUJEO-treated patients with type 1 diabetes and 327 of 1242 (26.3%) TOUJEO-treated patients with type 2 diabetes were ≥ 65 years of age, among them 2.0% of the patients with type 1 and 3.0% of the patients with type 2 diabetes were ≥ 75 years of age. No overall differences in effectiveness and safety were observed in the subgroup analyses across the age groups.

Nevertheless, caution should be exercised when TOUJEO is administered to geriatric patients. In elderly patients with diabetes, the initial dosing, dose increments, and maintenance dosage should be conservative to avoid hypoglycemia [*see Warnings and Precautions (5.3), Adverse Reactions (6), and Clinical Studies (14)*].

8.6 Hepatic Impairment

The effect of hepatic impairment on the pharmacokinetics of TOUJEO has not been studied. Frequent glucose monitoring and dose adjustment may be necessary for TOUJEO in patients with hepatic impairment [*see Warnings and Precautions (5.3)*].

8.7 Renal Impairment

The effect of renal impairment on the pharmacokinetics of TOUJEO has not been studied. Some studies with human insulin have shown increased circulating levels of insulin in patients with renal failure. Frequent glucose monitoring and dose adjustment may be necessary for TOUJEO in patients with renal impairment [*see Warnings and Precautions (5.3)*].

8.8 Obesity

No overall differences in effectiveness and safety were observed in subgroup analyses based on

BMI.

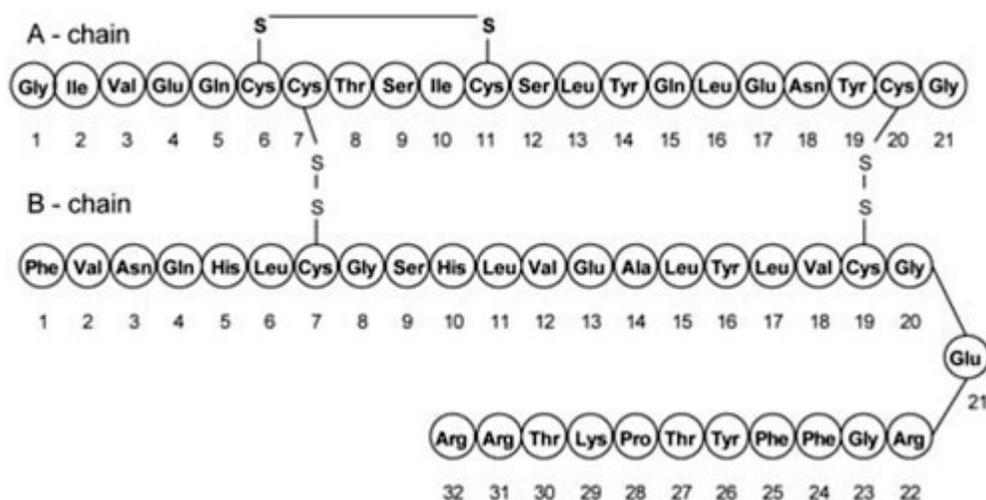
10 OVERDOSAGE

Excess insulin administration may cause hypoglycemia and hypokalemia [see *Warnings and Precautions* (5.3, 5.6)]. Mild episodes of hypoglycemia can be treated with oral glucose. Adjustments in drug dosage, meal patterns, or physical activity level may be needed. More severe episodes of hypoglycemia with coma, seizure, or neurologic impairment may be treated with intramuscular/subcutaneous glucagon or concentrated intravenous glucose. Sustained carbohydrate intake and observation may be necessary because hypoglycemia may recur after apparent clinical recovery. Hypokalemia must be corrected appropriately.

11 DESCRIPTION

TOUJEO (insulin glargine injection) is a long-acting insulin supplied as a sterile solution for subcutaneous injection containing 300 units/mL of insulin glargine.

Insulin glargine is a human insulin analog produced by recombinant DNA technology utilizing a nonpathogenic laboratory strain of *Escherichia coli* (K12) as the production organism. Insulin glargine differs from human insulin in that the amino acid asparagine at position A21 is replaced by glycine and two arginines remain at the C-terminus of the B-chain. Chemically, insulin glargine is 21^A-Gly-31^B-32^B-Di-Arg -human insulin and has the empirical formula C₂₆₇H₄₀₄N₇₂O₇₈S₆ and a molecular weight of 6063. Insulin glargine has the following structural formula:



Each milliliter of TOUJEO contains 300 units (10.91 mg) insulin glargine dissolved in a clear aqueous fluid.

The 1.5 mL TOUJEO SoloStar disposable prefilled pen presentation contains the following inactive ingredients per mL: 90 mcg zinc, 2.7 mg m-cresol, 20 mg glycerol 85%, and water for injection.

The 3 mL TOUJEO Max SoloStar disposable prefilled pen presentation contains the following inactive ingredients per mL: 90 mcg zinc, 2.7 mg m-cresol, 20 mg glycerol 85%, and water for injection.

The pH is adjusted by addition of aqueous solutions of hydrochloric acid and sodium hydroxide. TOUJEO has a pH of approximately 4. At pH 4, insulin glargine is completely soluble. After injection into the subcutaneous tissue, the acidic solution is neutralized, leading to formation of a precipitate from which small amounts of insulin glargine are slowly released.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The primary activity of insulin, including insulin glargine, is regulation of glucose metabolism. Insulin and its analogs lower blood glucose by stimulating peripheral glucose uptake, especially by skeletal muscle and fat, and by inhibiting hepatic glucose production. Insulin inhibits lipolysis and proteolysis, and enhances protein synthesis.

12.2 Pharmacodynamics

Onset of Action

The pharmacodynamic profiles for TOUJEO given subcutaneously as a single dose of 0.4, 0.6, or 0.9 U/kg in a euglycemic clamp study in patients with type 1 diabetes showed that on average, the onset of action develops over 6 hours post dose for all three single doses of TOUJEO.

Single-Dose Pharmacodynamics

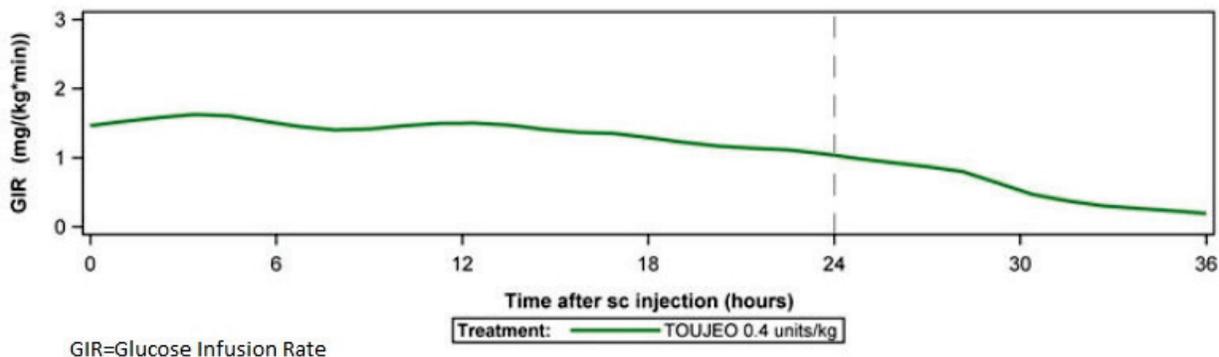
The pharmacodynamics for single 0.4, 0.6, and 0.9 U/kg doses of TOUJEO in 24 patients with type 1 diabetes mellitus was evaluated in a euglycemic clamp study. On a unit-to-unit basis, TOUJEO had a lower maximum (GIR_{max}) and 24-hour glucose lowering effect ($GIR-AUC_{0-24}$) compared to LANTUS. The overall glucose lowering effect of TOUJEO 0.4 U/kg was 12% of the glucose lowering effect of an equivalent dose of LANTUS. Glucose lowering at least 30% of the effect of a single 0.4 U/kg dose of LANTUS was not observed until the single dose of TOUJEO exceeded 0.6 U/kg.

Multiple Once-Daily Dose Pharmacodynamics

The pharmacodynamics of TOUJEO after 8 days of daily injection was evaluated in 30 patients with type 1 diabetes. At steady state, the 24-hour glucose lowering effect ($GIR-AUC_{0-24}$) of TOUJEO 0.4 U/kg was approximately 27% lower with a different distribution profile than that of an equivalent dose of LANTUS [see *Dosage and Administration (2)*, *Warnings and Precautions (5.2)*, and *Clinical Pharmacology (12.3)*]. The glucose lowering effect of a TOUJEO dose increased with each daily administration.

The pharmacodynamic profile for TOUJEO given subcutaneously as multiple once-daily subcutaneous injections of 0.4 U/kg in a euglycemic clamp study in patients with type 1 diabetes is shown in Figure 1.

Figure 1: Glucose Infusion Rate in Patients with Type 1 Diabetes in Multiple-Dose Administration of TOUJEO



Glucose infusion rate: determined as amount of glucose infused to maintain constant plasma glucose levels.

12.3 Pharmacokinetics

Absorption and Bioavailability

The pharmacokinetic profiles for single 0.4, 0.6, and 0.9 U/kg doses of TOUJEO in 24 patients with type 1 diabetes mellitus was evaluated in a euglycemic clamp study. The median time to maximum serum insulin concentration was 12 (8-14), 12 (12-18), and 16 (12-20) hours, respectively. Mean serum insulin concentrations declined to the lower limit of quantitation of 5.02 $\mu\text{U/mL}$ by 16, 28, and beyond 36 hours, respectively.

Steady-state insulin concentrations are reached by at least 5 days of once-daily subcutaneous administration of 0.4 U/kg to 0.6 U/kg doses of TOUJEO over 8 days in patients with type 1 diabetes mellitus.

After subcutaneous injection of TOUJEO, the intra-subject variability, defined as the coefficient of variation for the insulin exposure during 24 hours was 21.0% at steady state.

Elimination

After subcutaneous injection of TOUJEO in diabetic patients, insulin glargine is metabolized at the carboxyl terminus of the B-chain with formation of two active metabolites M1 (21A-Gly-insulin) and M2 (21A-Gly-des-30B-Thr-insulin). The *in vitro* activity of M1 and M2 were similar to that of human insulin.

Specific Populations

Age (Geriatric Population and Pediatric Population), Race, and Sex: Effect of age, race, and sex on the pharmacokinetics of TOUJEO has not been evaluated.

Obesity: Effect of BMI on the pharmacokinetics of TOUJEO has not been evaluated.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In mice and rats, standard two-year carcinogenicity studies with insulin glargine were performed at doses up to 0.455 mg/kg, which was for the rat approximately 65 times the recommended human subcutaneous starting dose of 0.2 Units/kg/day (0.007 mg/kg/day). The findings in female

mice were not conclusive due to excessive mortality in all dose groups during the study. Histiocytomas were found at injection sites in male rats (statistically significant) and male mice (not statistically significant) in acid vehicle containing groups. These tumors were not found in female animals, in saline control, or insulin comparator groups using a different vehicle. The relevance of these findings to humans is unknown.

Insulin glargine was not mutagenic in tests for detection of gene mutations in bacteria and mammalian cells (Ames and HGPRT test) and in tests for detection of chromosomal aberrations (cytogenetics *in vitro* in V79 cells and *in vivo* in Chinese hamsters).

In a combined fertility and prenatal and postnatal study in male and female rats at subcutaneous doses up to 0.36 mg/kg/day, which was approximately 50 times the recommended human subcutaneous starting dose of 0.2 Units/kg/day (0.007 mg/kg/day), maternal toxicity due to dose-dependent hypoglycemia, including some deaths, was observed. Consequently, a reduction of the rearing rate occurred in the high-dose group only. Similar effects were observed with NPH insulin.

14 CLINICAL STUDIES

14.1 Overview of Clinical Studies

The safety and effectiveness of TOUJEO given once daily was compared to that of once-daily LANTUS in open-label, randomized, active-control, parallel studies of up to 26 weeks in patients with type 1 diabetes mellitus and patients with type 2 diabetes mellitus (Tables 4 and 5). At trial end, the reduction in glycated hemoglobin (HbA1c) and fasting plasma glucose with TOUJEO titrated to goal was similar to that with LANTUS titrated to goal. At the end of the trial, depending on the patient population and concomitant therapy, patients were receiving a higher dose of TOUJEO than LANTUS.

14.2 Clinical Study in Adult Patients with Type 1 Diabetes

In an open-label, controlled study (Study A), patients with type 1 diabetes (n=546), were randomized to basal-bolus treatment with TOUJEO or LANTUS and treated for 26 weeks. TOUJEO and LANTUS were administered once daily in the morning (time period covering from pre-breakfast until pre-lunch) or in the evening (time period defined as prior to the evening meal until at bedtime). A mealtime insulin analogue was administered before each meal. Mean age was 47.3 years and mean duration of diabetes was 21 years. Fifty-seven percent were male, 85.1% were Caucasian, 4.7% Black or African American, and 4.7% were Hispanic; 32.2% of patients had GFR >90 mL/min/1.73 m². The mean BMI was approximately 27.6 kg/m². At week 26, treatment with TOUJEO provided a mean reduction in HbA1c that met the prespecified noninferiority margin of 0.4% (Table 4). Patients treated with TOUJEO used 17.5% more basal insulin than patients treated with LANTUS. There were no clinically important differences in glycemic control when TOUJEO was administered once daily in the morning or in the evening. There were no clinically important differences in body weight between treatment groups.

Table 4: Type 1 Diabetes Mellitus – Adult (TOUJEO plus mealtime insulin versus LANTUS plus mealtime insulin)

	TOUJEO + Mealtime Insulin [‡]	LANTUS + Mealtime Insulin [‡]
Treatment duration	26 weeks	
Treatment in combination with	Fast-acting insulin analogue	
Number of subjects treated (mITT*)	273	273
HbA1c		
Baseline mean	8.13	8.12
Adjusted mean change from baseline	-0.40	-0.44
Adjusted mean difference [†] [95% Confidence Interval]	0.04 [-0.10 to 0.18]	
Fasting Plasma Glucose mg/dL		
Baseline mean	186	199
Adjusted mean change from baseline	-17	-20
Adjusted mean difference [†] [95% Confidence Interval]	3 [-10 to 16]	

* mITT: Modified intention-to-treat population.

† Treatment difference: TOUJEO – LANTUS.

‡ “mealtime insulin” refers to insulin glulisine, insulin lispro or insulin aspart.

14.3 Clinical Studies in Adult Patients with Type 2 Diabetes

In a 26-week open-label, controlled study (study B, n=804), adults with type 2 diabetes were randomized to once-daily treatment in the evening with either TOUJEO or LANTUS. Short-acting mealtime insulin analogues with or without metformin were also administered. The average age was 60 years. The majority of patients were White (92.3%) and 52.9% were male; 20.3% of patients had GFR >90 mL/min/1.73 m². The mean BMI was approximately 36.6 kg/m². At week 26, treatment with TOUJEO provided a mean reduction in HbA1c that met the prespecified noninferiority margin of 0.4% compared to LANTUS (Table 5). Patients treated with TOUJEO used 11% more basal insulin than patients treated with LANTUS. There were no clinically important differences in body weight between treatment groups.

In two open-label, controlled studies (n=1670), adults with type 2 diabetes mellitus were randomized to either TOUJEO or LANTUS once daily for 26 weeks as part of a regimen of combination therapy with noninsulin antidiabetic drugs. At the time of randomization, 808 patients were treated with basal insulin for more than 6 months (study C) and 862 patients were insulin-naive (study D).

In Study C, the average age was 58.2 years. The majority of patients were White (93.8%) and 45.9% were male; 32.8% of patients had GFR >90 mL/min/1.73 m². The mean BMI was approximately 34.8 kg/m². At week 26, treatment with TOUJEO provided a mean reduction in HbA1c that met the prespecified noninferiority margin of 0.4% compared to LANTUS (Table 5). Patients treated with TOUJEO used 12% more basal insulin than patients treated with LANTUS. There were no clinically important differences in body weight between treatment groups.

In Study D, the average age was 57.7 years. The majority of patients were White (78%) and 57.7% were male; 29% of patients had GFR >90 mL/min/1.73 m². The mean BMI was approximately 33 kg/m². At week 26, treatment with TOUJEO provided a mean reduction in HbA1c that met the prespecified noninferiority margin compared to LANTUS (Table 5). Patients treated with TOUJEO used 15% more basal insulin than patients treated with LANTUS. There were no clinically important differences in body weight between treatment groups.

Table 5: Type 2 Diabetes Mellitus – Adult

	Study B		Study C		Study D	
Treatment duration	26 weeks		26 weeks		26 weeks	
Treatment in combination with	Mealtime insulin analog ± metformin		Noninsulin antidiabetic drugs			
	TOUJEO	LANTUS	TOUJEO	LANTUS	TOUJEO	LANTUS
Number of patients treated*	404	400	403	405	432	430
HbA1c						
Baseline mean	8.13	8.14	8.27	8.22	8.49	8.58
Adjusted mean change from baseline	-0.90	-0.87	-0.73	-0.70	-1.42	-1.46
Adjusted mean difference† [95% Confidence interval]	-0.03 [-0.14 to 0.08]		-0.03 [-0.17 to 0.10]		0.04 [-0.09 to 0.17]	
Fasting Plasma Glucose (mg/dL)						
Baseline mean	157	160	149	142	179	184
Adjusted mean change from baseline	-29	-30	-18	-22	-61	-68
Adjusted mean difference† [95% Confidence interval]	0.8 [-5 to 7]		3 [-3 to 9]		7 [2 to 12]	

* m-ITT population: Modified intention-to-treat population.

† Treatment difference: TOUJEO – LANTUS.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

TOUJEO is supplied as a clear and colorless solution containing 300 units per mL (U-300) of insulin glargine and is available in 2 single-patient-use prefilled pen presentations:

TOUJEO	Total volume	Concentration	Total units available in presentation	Max dose per injection	Dose increment	NDC number	Package size
SoloStar single-patient-use prefilled pen	1.5 mL	300 units/mL	450 units	80 units	1 unit	0024-5869-03	3 pens/pack
Max SoloStar single-patient-use prefilled pen	3 mL	300 units/mL	900 units	160 units	2 units	0024-5871-02	2 pens/pack

Needles are not included in the packs of TOUJEO SoloStar or TOUJEO Max SoloStar disposable prefilled pen.

BD (such as BD Ultra-Fine[®]), Ypsomed (such as Clickfine[®]) or Owen Mumford (such as Unifine[®] Pentips[®]) needles[‡] can be used in conjunction with TOUJEO SoloStar or TOUJEO Max SoloStar disposable prefilled pen and are sold separately.

A new sterile needle must be attached before each injection. TOUJEO SoloStar or TOUJEO Max SoloStar single-patient-use prefilled pens must never be shared between patients, even if the needle is changed.

16.2 Storage

Dispense in the original sealed carton with the enclosed Instructions for Use.

TOUJEO SoloStar or TOUJEO Max SoloStar disposable prefilled pen should not be stored in the freezer and should not be allowed to freeze. Discard TOUJEO disposable prefilled pen if it has been frozen. Protect TOUJEO SoloStar/TOUJEO Max SoloStar from direct heat and light.

Storage conditions are summarized in the following table:

	Not in-use (unopened) Refrigerated 36°F-46°F (2°C-8°C)	In-use (opened)* Room temperature only (Do not refrigerate) below 86°F (30°C)
1.5 mL TOUJEO SoloStar single-patient-use prefilled pen	Until expiration date	56 days*
3 mL TOUJEO Max SoloStar single-patient-use prefilled pen	Until expiration date	56 days*

* To prevent degradation, always store the prefilled pens with the cap on during in-use period.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information and Instructions for Use).

Never Share a TOUJEO SoloStar or TOUJEO Max SoloStar Pen Between Patients

[See Warnings and Precautions (5.1).]

Advise patients that they must never share TOUJEO SoloStar or TOUJEO Max SoloStar pen with another person even if the needle is changed. Pen sharing poses a risk for transmission of blood-borne pathogens.

Hyperglycemia or Hypoglycemia

[See Warnings and Precautions (5.2, 5.3).]

Inform patients that hypoglycemia is the most common adverse reaction with insulin. Inform patients of the symptoms of hypoglycemia. Inform patients that the ability to concentrate and react may be impaired as a result of hypoglycemia. This may present a risk in situations where these abilities are especially important, such as driving or operating other machinery. Advise patients who have frequent hypoglycemia or reduced or absent warning signs of hypoglycemia to use caution when driving or operating machinery.

Advise patients that changes in insulin regimen can predispose to hyperglycemia or hypoglycemia and that changes in insulin regimen should be made under close medical supervision.

Inform patients that if they change to TOUJEO from other basal insulins they may experience higher average fasting plasma glucose levels in the first weeks of therapy. Advise patients to monitor glucose daily when initiating TOUJEO.

Medication Errors

[See Warnings and Precautions (5.4).]

Instruct patients to always check the insulin label before each injection. The “300 units/mL (U-300)” is highlighted in honey gold on the labels of TOUJEO and TOUJEO Max SoloStar disposable prefilled pens.

Inform patients that TOUJEO (insulin glargine injection) 300 units/mL contains 3 times as much insulin in 1 mL as standard insulin (100 units/mL). To avoid dosing errors and potential overdose, instruct patients to never use a syringe to remove TOUJEO from the TOUJEO SoloStar or TOUJEO Max SoloStar single-patient-use prefilled pen.

Inform patients that TOUJEO (insulin glargine injection) 300 units/mL is available in two disposable prefilled pens. The dose counter of TOUJEO SoloStar or TOUJEO Max SoloStar disposable prefilled pen shows the number of units of TOUJEO to be injected and no dose recalculation is required.

Instruct patients to follow the Instructions for Use and perform a safety test as described in Step 3 of the Instructions for Use. Failure to perform this step may result in not receiving the full dose. If this occurs, patients should increase the frequency of checking their blood glucose levels and might need to administer additional insulin.

Administration

TOUJEO must only be used if the solution is clear and colorless with no particles visible. Patients must be advised that TOUJEO must NOT be diluted or mixed with any other insulin or solution.

sanofi-aventis U.S. LLC

Bridgewater, NJ 08807
A SANOFI COMPANY

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LANTUS, TOUJEO, SoloStar, and TOUJEO Max SoloStar are registered trademarks of sanofi-aventis U.S. LLC.

‡The brands listed are the registered trademarks of their respective owners and are not trademarks of sanofi-aventis U.S. LLC.

Patient Information
TOUJEO® (Too-Jay-o)
(insulin glargine injection)
300 units/mL (U-300)
for subcutaneous use

Do not share your TOUJEO SoloStar® or TOUJEO Max SoloStar® pen with other people, even if the needle has been changed. You may give other people a serious infection, or get a serious infection from them.

What is TOUJEO?

- TOUJEO is a long-acting man-made insulin used to control high blood sugar in adults with diabetes mellitus.
- TOUJEO is not for use to treat diabetic ketoacidosis.
- It is not known if TOUJEO is safe and effective in children.

Who should not use TOUJEO?

Do not use TOUJEO if you:

- are having an episode of low blood sugar (hypoglycemia).
- have an allergy to insulin glargine or any of the ingredients in TOUJEO. See the end of this Patient Information leaflet for a complete list of ingredients in TOUJEO.

What should I tell my healthcare provider before using TOUJEO?

Before using TOUJEO, tell your healthcare provider about all your medical conditions, including if you:

- have liver or kidney problems.
- take other medicines, especially ones called TZDs (thiazolidinediones).
- have heart failure or other heart problems. If you have heart failure, it may get worse while you take TZDs with TOUJEO.
- are pregnant, planning to become pregnant, or are breastfeeding. It is not known if TOUJEO may harm your unborn or breastfeeding baby.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

Before you start using TOUJEO, talk to your healthcare provider about low blood sugar and how to manage it.

How should I use TOUJEO?

- TOUJEO is available in 2 single-patient-use prefilled pens: TOUJEO SoloStar and TOUJEO Max SoloStar. Your healthcare provider will tell you which TOUJEO Pen is right for you.
- Read the detailed **Instructions for Use** that come with your TOUJEO SoloStar or TOUJEO Max SoloStar single-patient-use prefilled pen.
- Use TOUJEO exactly as your healthcare provider tells you to. Your healthcare provider should tell you how much TOUJEO to use and when to use it.
- Know the amount of TOUJEO you use. **Do not** change the amount of TOUJEO you use unless your healthcare provider tells you to.
- Check your insulin label each time you give your injection to make sure you are using the correct insulin.
- Do not use a syringe to remove TOUJEO from your TOUJEO SoloStar or TOUJEO Max SoloStar single-patient-use prefilled pen. This can cause you to give yourself too much insulin. TOUJEO has 3 times as much insulin in 1 mL compared to other standard insulin pens.
- **Do not** re-use needles. Always use a new needle for each injection. Reusing needles increases your chance of having blocked needles, which can cause you to get the wrong dose of TOUJEO. Using a new needle for each injection also lowers your risk of getting an infection. If your needle is blocked, follow the instructions in **Step 3** of the **Instructions for Use**.
- TOUJEO should be used 1 time each day and at the same time each day.
- TOUJEO is injected under the skin (subcutaneously) of your upper legs (thighs), upper arms, or stomach area (abdomen).
- **Do not** use TOUJEO in an insulin pump or inject TOUJEO into your vein (intravenously).

- **Change (rotate) your injection sites within the area you choose with each dose** to reduce your risk of getting lipodystrophy (pits in skin or thickened skin) and localized cutaneous amyloidosis (skin with lumps) at the injection sites.
 - **Do not** use the exact same spot for each injection.
 - **Do not** inject where the skin has pits, is thickened, or has lumps.
 - **Do not** inject where the skin is tender, bruised, scaly or hard, or into scars or damaged skin.
- **Do not** mix TOUJEO with any other type of insulin or liquid medicine.
- **Check your blood sugar levels.** Ask your healthcare provider what your blood sugar should be and when you should check your blood sugar levels.

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

Your dose of TOUJEO may need to change because of:

- a change in level of physical activity or exercise, weight gain or loss, increased stress, illness, change in diet, or because of other medicines you take.

What should I avoid while using TOUJEO?

While using TOUJEO do not:

- drive or operate heavy machinery, until you know how TOUJEO affects you.
- drink alcohol or use over-the-counter medicines that contain alcohol.

What are the possible side effects of TOUJEO?

TOUJEO may cause serious side effects that can lead to death, including:

- **low blood sugar (hypoglycemia).** Signs and symptoms that may indicate low blood sugar include:
 - dizziness or light-headedness, sweating, confusion, headache, blurred vision, slurred speech, shakiness, fast heartbeat, anxiety, irritability or mood change, hunger.
- **severe allergic reaction (whole body reaction). Get medical help right away if you have any of these signs or symptoms of a severe allergic reaction:**
 - a rash over your whole body, trouble breathing, a fast heartbeat, or sweating
- **low potassium in your blood (hypokalemia).**
- **heart failure.** Taking certain diabetes pills called TZDs (thiazolidinediones) with TOUJEO may cause heart failure in some people. This can happen even if you have never had heart failure or heart problems before. If you already have heart failure it may get worse while you take TZDs with TOUJEO. Your healthcare provider should monitor you closely while you are taking TZDs with TOUJEO. Tell your healthcare provider if you have any new or worse symptoms of heart failure including:
 - shortness of breath, swelling of your ankles or feet, sudden weight gain.

Treatment with TZDs and TOUJEO may need to be changed or stopped by your healthcare provider if you have new or worse heart failure.

Get emergency medical help if you have:

- trouble breathing, shortness of breath, fast heartbeat, swelling of your face, tongue, or throat, sweating, extreme drowsiness, dizziness, confusion.

The most common side effects of TOUJEO include:

- low blood sugar (hypoglycemia), weight gain, itching, rash, swelling, allergic reactions, including reactions at your injection site, skin thickening or pits at the injection site (lipodystrophy).

These are not all the possible side effects of TOUJEO. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

General information about the safe and effective use of TOUJEO.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet.

Do not use TOUJEO for a condition for which it was not prescribed. **Do not** give TOUJEO to other people, even if they have the same symptoms that you have. It may harm them.

This Patient Information leaflet summarizes the most important information about TOUJEO. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about TOUJEO that is written for health professionals.

What are the ingredients in TOUJEO?

- **Active ingredient:** insulin glargine
- **Inactive ingredients:** zinc, m-cresol, glycerol, and water for injection. Hydrochloric acid and sodium hydroxide may be added to adjust the pH.

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For more information, go to www.TOUJEO.com or call 1-800-633-1610.

This Patient Information has been approved by the U.S. Food and Drug Administration.

Revised: November 2019

Instructions for Use
TOUJEO® SoloStar® (Too-Jay-o)
(insulin glargine injection)
1.5 mL single-patient-use prefilled pen

Read this first

Do not share your TOUJEO SoloStar pen with other people, even if the needle has been changed. You may give other people a serious infection, or get a serious infection from them.

TOUJEO contains 300 units/mL insulin glargine

- **Do not re-use needles.** If you do you might not get your dose (underdosing) or get too much (overdosing) as the needle could block.
- **Do not use a syringe to remove insulin from your pen.** If you do you will get too much insulin. The scale on most syringes is made for non-concentrated insulin only.
- The dose selector of your TOUJEO SoloStar pen dials by 1 unit.

People who are blind or have vision problems should not use the TOUJEO SoloStar pen without help from a person trained to use the TOUJEO SoloStar pen.

Important information

- **Do not** use your pen if it is damaged or if you are not sure that it is working properly.
- Always perform a safety test (see **Step 3**).
- Always carry a spare pen and spare needles in case they are lost or stop working.
- Change (rotate) your injection sites within the area you choose for each dose (see “**Places to inject**”).

Learn to inject

- Talk with your healthcare provider about how to inject, before using your pen.
- Read all of these instructions before using your pen. If you do not follow all of these instructions, you may get too much or too little insulin.

Need help?

If you have any questions about your pen or about diabetes, ask your healthcare provider, go to **www.Toujeo.com** or call sanofi-aventis at **1-800-633-1610**.

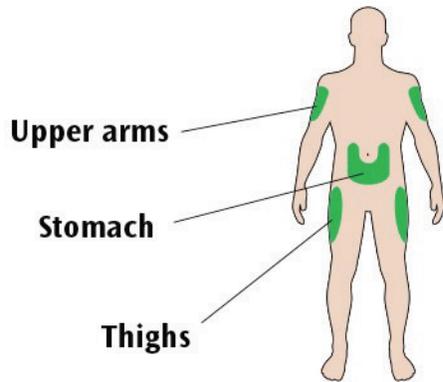
Extra items you will need:

- a new sterile needle (not included with the pen) (see **Step 2**).
- an alcohol swab.
- a puncture-resistant container for used needles and pens (see “**Throwing your pen away**”).

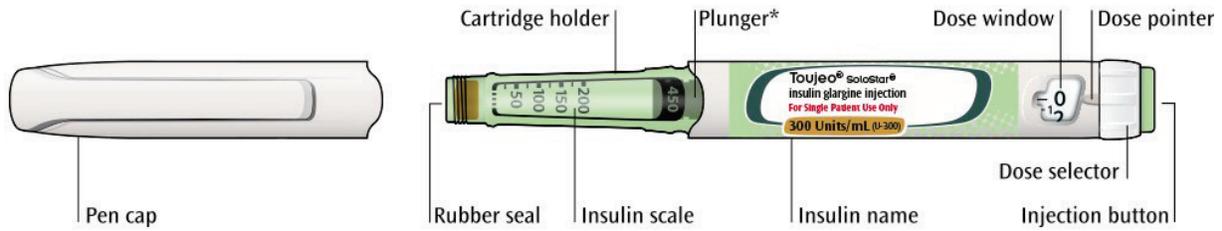
Places to inject

- Inject your insulin exactly as your healthcare provider has shown you.
- Inject your insulin under the skin (subcutaneously) of your upper legs (thighs), upper arms, or stomach area (abdomen).
- Change (rotate) your injection sites within the area you choose for each dose to reduce your risk of getting lipodystrophy (pits in skin or thickened skin) and localized cutaneous amyloidosis (skin with lumps) at the injection sites.

- **Do not** inject where the skin has pits, is thickened, or has lumps.
- **Do not** inject where the skin is tender, bruised, scaly or hard, or into scars or damaged skin.



Get to know your pen



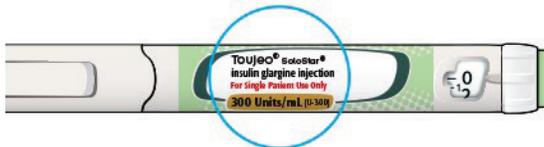
*You will not see the plunger until you have injected a few doses

Step 1: Check your pen

Take a new pen out of the refrigerator at least 1 hour before you inject. Cold insulin is more painful to inject.

1A Check the name and expiration date on the label of your pen.

- **Make sure you have the correct insulin.**



- **Do not** use your pen after the expiration date printed on the label.

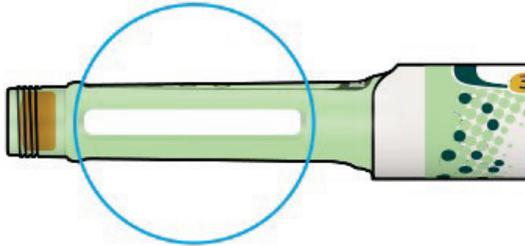


1B Pull off the pen cap.

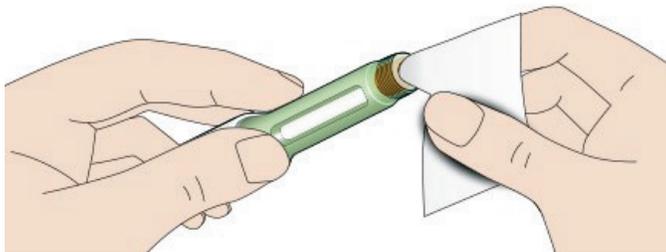


1C Check that the insulin is clear.

- **Do not** use the pen if the insulin looks cloudy, colored or contains particles.



1D Wipe the rubber seal with an alcohol swab.



If you have other injector pens

- Making sure you have the correct medicine is especially important if you have other injector pens.

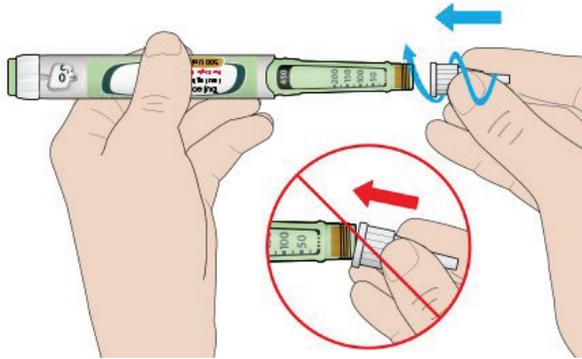
Step 2: Attach a new needle

- **Do not** re-use needles. Always use a new sterile needle for each injection. This helps stop blocked needles, contamination and infection.
- Always use needles* from BD (such as BD Ultra-Fine®), Ypsomed (such as Clickfine®), or Owen Mumford (such as Unifine® Pentips®).

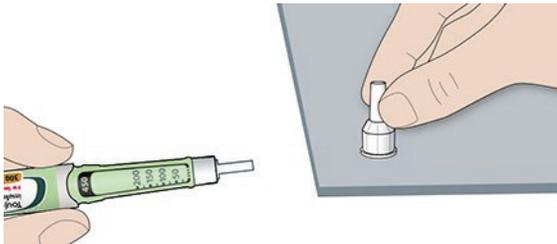
2A Take a new needle and peel off the protective seal.



2B Keep the needle straight and screw it onto the pen until fixed. Do not over-tighten.



2C Pull off the outer needle cap. Keep this for later.



2D Pull off the inner needle cap and throw away.



Handling needles

- Be careful when you are handling needles to help prevent accidental needle-stick injury. You may give other people a serious infection, or get a serious infection from them.

Step 3: Do a safety test

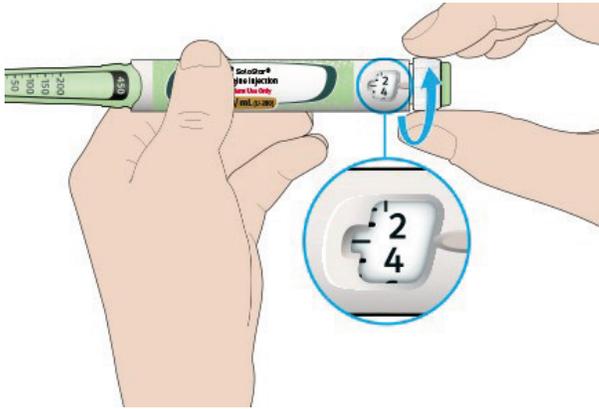
Always do a safety test before each injection to:

- check your pen and the needle to make sure they are working properly.
- make sure that you get the correct insulin dose.

If the pen is new, you must perform safety tests before you use the pen for the first time until you see insulin coming out of the needle tip. If you see insulin coming out of the needle tip, the pen is ready to use. If you do not see insulin coming out before taking your dose, you could get an underdose or no insulin at all. This could cause high blood sugar.

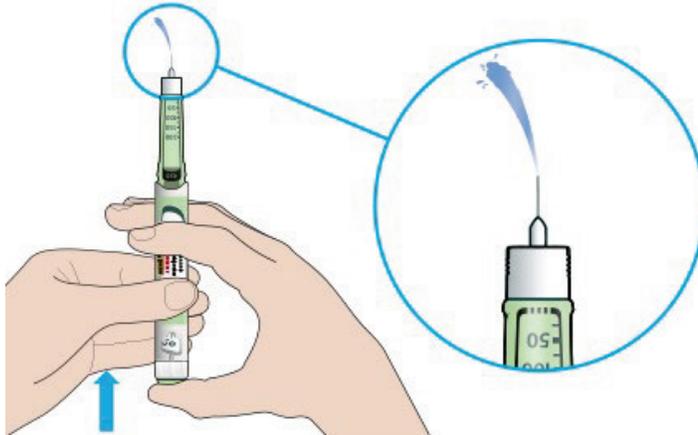
3A Select 3 units by turning the dose selector until the dose pointer is at the mark between 2 and

4.



3B Press the injection button all the way in.

- When insulin comes out of the needle tip, your pen is working correctly.



If no insulin appears:

- You may need to repeat this step up to 3 times before seeing insulin.
- If no insulin comes out after the third time, the needle may be blocked. If this happens:
 - change the needle (see Step 6 and Step 2),
 - then repeat the safety test (see Step 3).
- **Do not** use your pen if there is still no insulin coming out of the needle tip. Use a new pen.
- **Do not** use a syringe to remove insulin from your pen.

If you see air bubbles

- You may see air bubbles in the insulin. This is normal, they will not harm you.

Step 4: Select the dose

- **Do not** select a dose or press the injection button without a needle attached. This may damage your pen.
- TOUJEO SoloStar is made to deliver the number of insulin units that your healthcare provider prescribed. You **do not need to do any dose calculations**.
- The dose selector of your TOUJEO SoloStar pen dials by 1 unit.

4A Make sure a needle is attached and the dose is set to '0'.



4B Turn the dose selector until the dose pointer lines up with your dose.

- Set the dose by turning the dose selector to a line in the dose window. Each line equals 1 unit.
- The dose selector clicks as you turn it.
- Always check the number in the dose window to make sure you dialed the correct dose.
- **Do not** dial your dose by counting the clicks. You may dial the wrong dose. This may lead to you getting too much insulin or not enough insulin.
- If you turn past your dose, you can turn back down.
- If there are not enough units left in your pen for your dose, the dose selector will stop at the number of units left.
- If you cannot select your full prescribed dose, split the dose into **2** injections or use a new pen. If you use a new pen, perform a safety test (see **Step 3**).



How to read the dose window

The dose selector dials by 1 unit.

Even numbers are shown in line with the dose pointer:



30 units selected

Odd numbers are shown as a line between even numbers:



29 units selected

Units of insulin in your pen

- Your pen contains a total of **450** units of insulin. You can select doses from **1** to **80** units. Each pen contains more than 1 dose.
- You can see roughly how many units of insulin are left by looking at where the plunger is on the insulin scale.

Step 5: Inject your dose

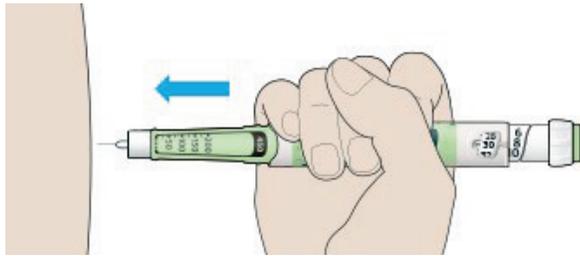
If you find it hard to press the injection button in, do not force it as this may break your pen. See the section below for help.

5A Choose a place to inject as shown in the picture labeled “Places to inject.”

- The site you choose for the injection should be clean and dry.
- If your skin is dirty, clean it as instructed by your healthcare provider.

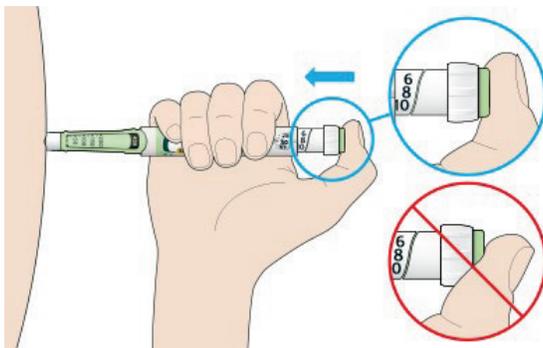
5B Push the needle into your skin as shown by your healthcare provider.

- **Do not** touch the injection button yet.



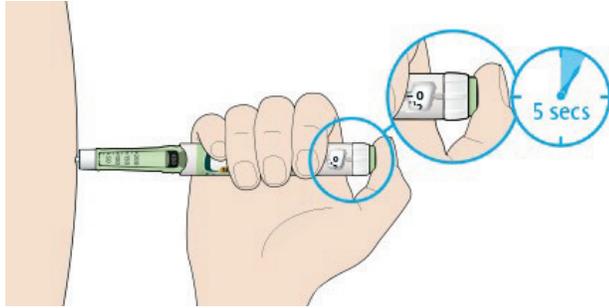
5C Place your thumb on the injection button. Then press all the way in and hold.

- **Do not** press at an angle. Your thumb could block the dose selector from turning.



5D Keep the injection button held in and when you see "0" in the dose window, slowly count to 5.

- This will make sure you get your full dose.



5E After holding and slowly counting to 5, release the injection button. Then remove the needle from your skin.

If you find it hard to press the button in:

- Change the needle (see **Step 6** and **Step 2**) then do a safety test (see **Step 3**).
- If you still find it hard to press in, get a new pen.
- **Do not** use a syringe to remove insulin from your pen.

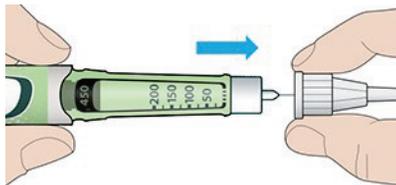
Step 6: Remove the needle

- Take care when handling needles to prevent needle injury and cross-infection.
- **Do not** put the inner needle cap back on.

6A Grip the widest part of the outer needle cap. Keep the needle straight and guide it into the outer needle cap.

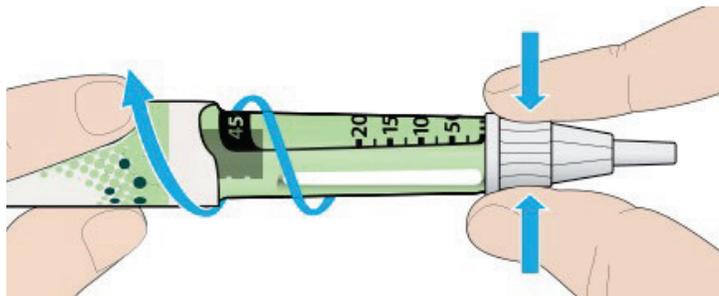
Then push firmly on.

- The needle can puncture the cap if it is recapped at an angle.



6B Grip and squeeze the widest part of the outer needle cap. Turn your pen several times with your other hand to remove the needle.

- Try again if the needle does not come off the first time.

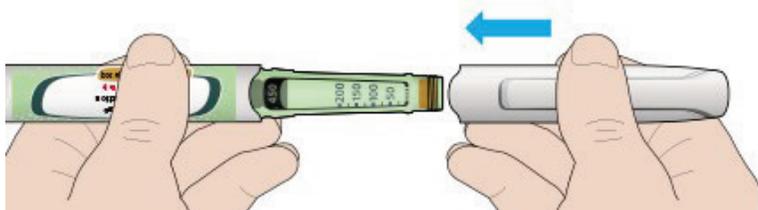


- 6C** Throw away the used needle in a puncture-resistant container (see “Throwing your pen away” at the end of this Instructions for Use).



- 6D** Put the pen cap back on.

- Do not put the pen back in the refrigerator.



Use by

- Only use your pen for up to **56 days** after its first use.

How to store your pen Before first use

- Keep new pens in the refrigerator between **36°F and 46°F (2°C and 8°C)**.
- **Do not** freeze. Throw away your pen if it has been frozen (See “Throwing your pen away”).

After first use

- Keep your pen at room **temperature below 86°F (30°C)**.
- Protect your pen from direct heat and light.
- **Do not** put your pen back in the refrigerator.
- **Do not** store your pen with the needle attached.
- Store your pen with the pen cap on.
- Keep TOUJEO SoloStar pens and needles out of the reach of children.

How to care for your pen

Handle your pen with care

- **Do not** drop your pen or knock it against hard surfaces.
- If you think that your pen may be damaged, **do not** try to fix it. Use a new one.

Protect your pen from dust and dirt

- You can clean the outside of your pen by wiping it with a damp cloth (water only). **Do not** soak, wash or

lubricate your pen. This may damage it.

Throwing your pen away

- Put the used TOUJEO SoloStar pen in a FDA-cleared sharps disposal container right away after use. **Do not** throw away (dispose of) the TOUJEO SoloStar pen in your household trash.
- If you do not have a FDA-cleared sharps disposal container, you may use a household container that is:
 - made of a heavy-duty plastic,
 - can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,
 - upright and stable during use,
 - leak-resistant, and
 - properly labeled to warn of hazardous waste inside the container.
- When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used needles and syringes. For more information about safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to the FDA's website at: <http://www.fda.gov/safesharpsdisposal>.
- **Do not** dispose of your used sharps disposal container in your household trash unless your community guidelines permit this. **Do not** recycle your used sharps disposal container.

This Instructions for Use has been approved by the U.S. Food and Drug Administration.

Revised: November 2019

sanofi-aventis U.S. LLC
Bridgewater, NJ 08807
A SANOFI COMPANY

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Instructions for Use
TOUJEO® Max SoloStar® (Too-Jay-o)
(insulin glargine injection)
3 mL single-patient-use prefilled pen

Read this first

Do not share your TOUJEO Max SoloStar pen with other people, even if the needle has been changed. You may give other people a serious infection, or get a serious infection from them.

TOUJEO contains 300 units/mL insulin glargine

- **Do not re-use needles.** If you do you might not get your dose (underdosing) or get too much (overdosing) as the needle could block.
- **Do not use a syringe to remove insulin from your pen.** If you do you will get too much insulin. The scale on most syringes is made for non-concentrated insulin only.
- The dose selector of your TOUJEO Max SoloStar pen dials by **2 units**.

People who are blind or have vision problems should not use the TOUJEO Max SoloStar pen without help from a person trained to use the TOUJEO Max SoloStar pen.

Important information

- **Do not** use your pen if it is damaged or if you are not sure that it is working properly.
- Always perform a safety test (see **Step 3**).
- Always carry a spare pen and spare needles in case they are lost or stop working.
- Change (rotate) your injection sites within the area you choose for each dose (see “**Places to inject**”).

Learn to inject

- Talk with your healthcare provider about how to inject, before using your pen.
- Read all of these instructions before using your pen. If you do not follow all of these instructions, you may get too much or too little insulin.

Need help?

If you have any questions about your pen or about diabetes, ask your healthcare provider, go to www.Toujeo.com or call sanofi-aventis at **1-800-633-1610**.

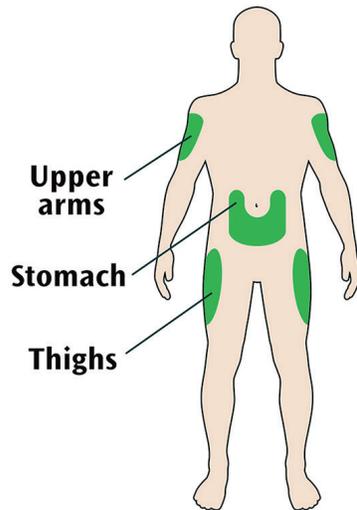
Extra items you will need:

- a new sterile needle (not included with the pen) (see **Step 2**).
- an alcohol swab.
- a puncture-resistant container for used needles and pens (see “**Throwing your pen away**”).

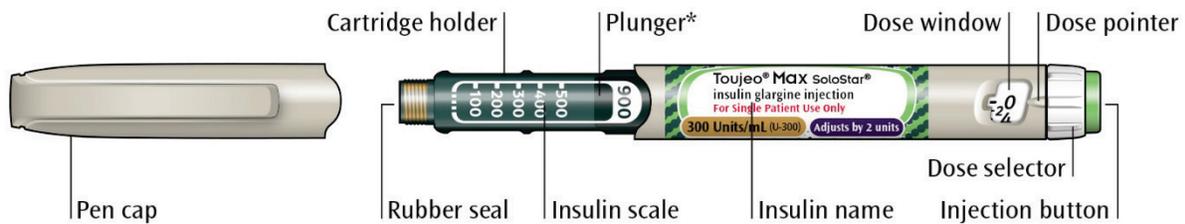
Places to inject

- Inject your insulin exactly as your healthcare provider has shown you.
- Inject your insulin under the skin (subcutaneously) of your upper legs (thighs), upper arms, or stomach area (abdomen).
- Change (rotate) your injection sites within the area you choose for each dose to reduce your risk of getting lipodystrophy (pits in skin or thickened skin) and localized cutaneous amyloidosis (skin with lumps) at the injection sites.
- Do not inject where the skin has pits, is thickened, or has lumps.

- **Do not** inject where the skin is tender, bruised, scaly or hard, or into scars or damaged skin.



Get to know your pen



*You will not see the plunger until you have injected a few doses

Step 1: Check your pen

Take a new pen out of the refrigerator at least **1** hour before you inject. Cold insulin is more painful to inject.

1A Check the name and expiration date on the label of your pen.

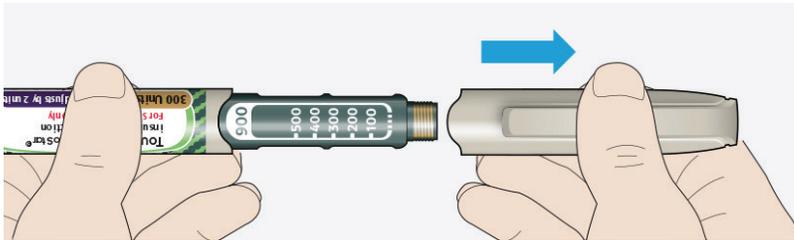
- **Make sure you have the correct insulin.**



- **Do not** use your pen after the expiration date printed on the label.



1B Pull off the pen cap.

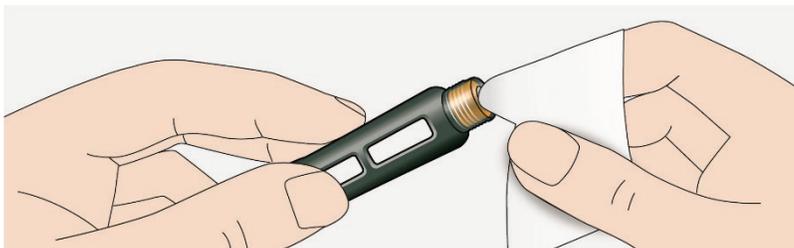


1C Check that the insulin is clear.

- **Do not** use the pen if the insulin looks cloudy, colored or contains particles.



1D Wipe the rubber seal with an alcohol swab.



If you have other injector pens

- Making sure you have the correct medicine is especially important if you have other injector pens.

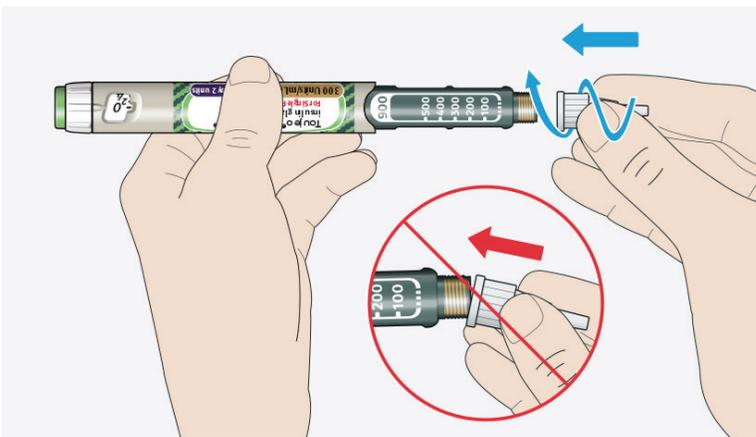
Step 2: Attach a new needle

- **Do not** re-use needles. Always use a new sterile needle for each injection. This helps stop blocked needles, contamination and infection.
- Always use needles* from BD (such as BD Ultra-Fine®), Ypsomed (such as Clickfine®), or Owen Mumford (such as Unifine® Pentips®) that are 8 mm long or shorter.

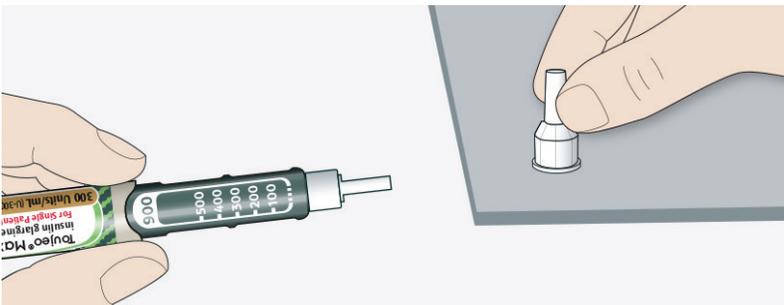
2A Take a new needle and peel off the protective seal.



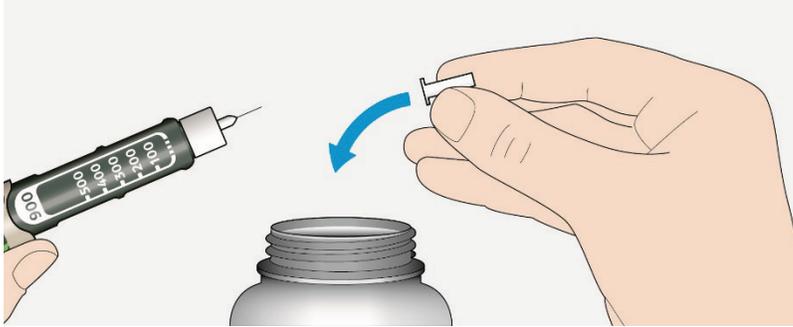
2B Keep the needle straight and screw it onto the pen until fixed. Do not over-tighten.



2C Pull off the outer needle cap. Keep this for later.



2D Pull off the inner needle cap and throw away.



Handling needles

- Be careful when you are handling needles to help prevent accidental needle-stick injury. You may give other people a serious infection, or get a serious infection from them.

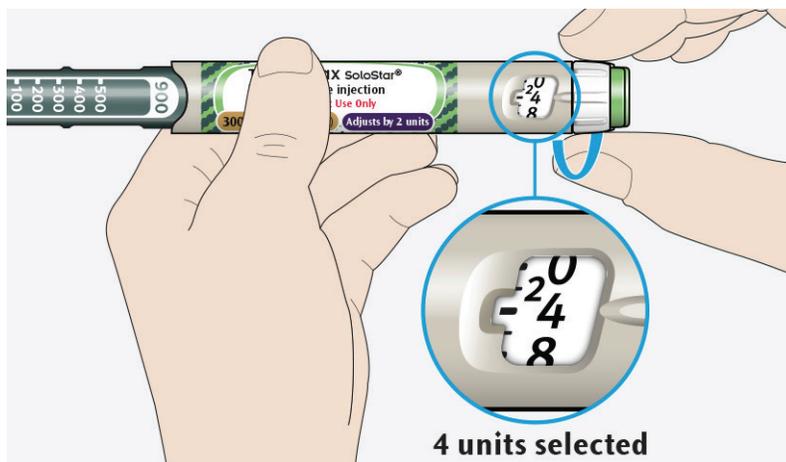
Step 3: Do a safety test

Always do a safety test before each injection to:

- check your pen and the needle to make sure they are working properly.
- make sure that you get the correct insulin dose.

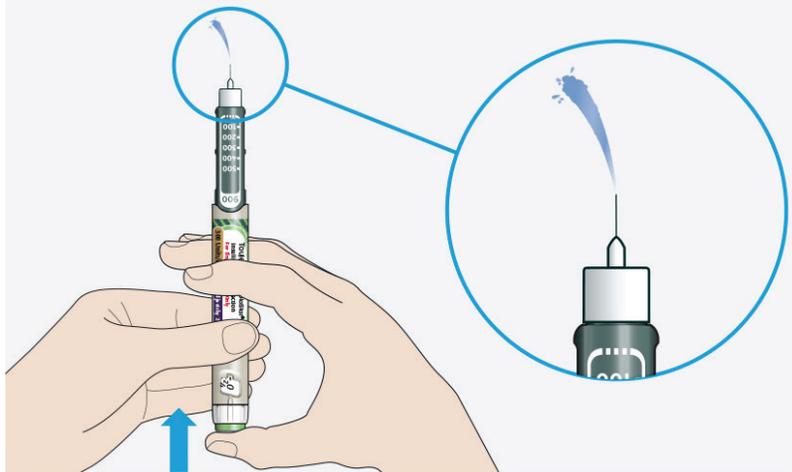
If the pen is new, you must perform safety tests before you use the pen for the first time until you see insulin coming out of the needle tip. If you see insulin coming out of the needle tip, the pen is ready to use. If you do not see insulin coming out before taking your dose, you could get an underdose or no insulin at all. This could cause high blood sugar.

3A Select 4 units by turning the dose selector until the dose pointer is at the 4 mark.



3B Press the injection button all the way in.

- When insulin comes out of the needle tip, your pen is working correctly.



If no insulin appears:

- You may need to repeat this step up to **6** times before seeing insulin.
- If no insulin comes out after the sixth time, the needle may be blocked. If this happens:
 - change the needle (see **Step 6** and **Step 2**),
 - then repeat the safety test (see **Step 3**).
- **Do not** use your pen if there is still no insulin coming out of the needle tip. Use a new pen.
- **Do not** use a syringe to remove insulin from your pen.

If you see air bubbles

- You may see air bubbles in the insulin. This is normal, they will not harm you.

Step 4: Select the dose

- **Do not** select a dose or press the injection button without a needle attached. This may damage your pen.
- TOUJEO Max SoloStar is made to deliver the number of insulin units that your healthcare provider prescribed. You **do not need to do any dose calculations**.
- The dose selector of your TOUJEO Max SoloStar pen dials by 2 units and can only dial even doses of insulin.

4A Make sure a needle is attached and the dose is set to '0'.



4B Turn the dose selector until the dose pointer lines up with your dose.

- Set the dose by turning the dose selector to a line in the dose window. Each line equals 2 units.
- The dose selector clicks as you turn it.
- Always check the number in the dose window to make sure you dialed the correct dose.
- **Do not** dial your dose by counting the clicks. You may dial the wrong dose. This may lead to you getting too much insulin or not enough insulin.

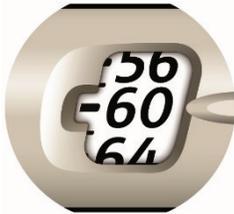
- If you turn past your dose, you can turn back down.
- If there are not enough units left in your pen for your dose, the dose selector will stop at the number of units left.
- If you cannot select your full prescribed dose, split the dose into **2** injections or use a new pen. If you use a new pen, perform a safety test (see **Step 3**).



How to read the dose window

The dose selector dials by 2 units.

Each line in the dose window is an even number.



60 units selected



58 units selected

Units of insulin in your pen

- Your pen contains a total of **900** units of insulin. You can select doses from **2** to **160** units. The dose is adjusted by 2 units at a time. Each pen contains more than 1 dose.
- You can see roughly how many units of insulin are left by looking at where the plunger is on the insulin scale.

Step 5: Inject your dose

If you find it hard to press the injection button in, **do not** force it as this may break your pen. See the section below for help.

5A Choose a place to inject as shown in the picture labeled “Places to inject.”

- The site you choose for the injection should be clean and dry.

- If your skin is dirty, clean it as instructed by your healthcare provider.

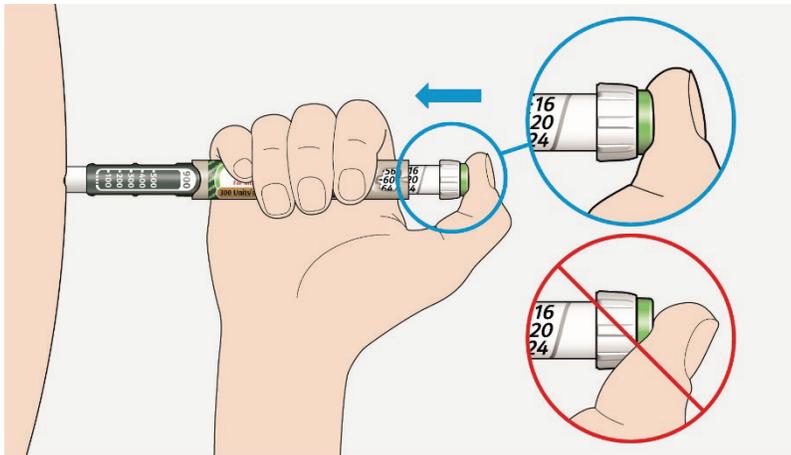
5B Push the needle into your skin as shown by your healthcare provider.

- **Do not** touch the injection button yet.



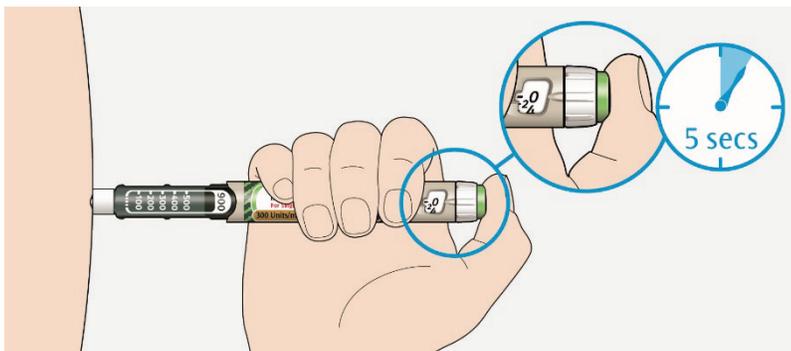
5C Place your thumb on the injection button. Then press all the way in and hold.

- **Do not** press at an angle. Your thumb could block the dose selector from turning.



5D Keep the injection button held in and when you see "0" in the dose window, slowly count to 5.

- This will make sure you get your full dose.



5E After holding and slowly counting to 5, release the injection button. Then remove the needle from your skin.

If you find it hard to press the injection button in:

- Change the needle (see **Step 6** and **Step 2**) then do a safety test (see **Step 3**).
- If you still find it hard to press in, get a new pen.

- **Do not** use a syringe to remove insulin from your pen.

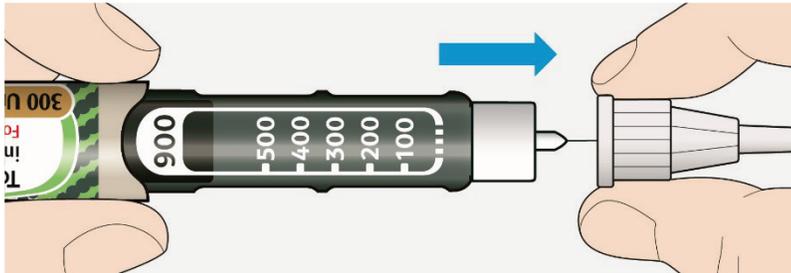
Step 6: Remove the needle

- Take care when handling needles to prevent needle injury and cross-infection.
- **Do not** put the inner needle cap back on.

6A Grip the widest part of the outer needle cap. Keep the needle straight and guide it into the outer needle cap.

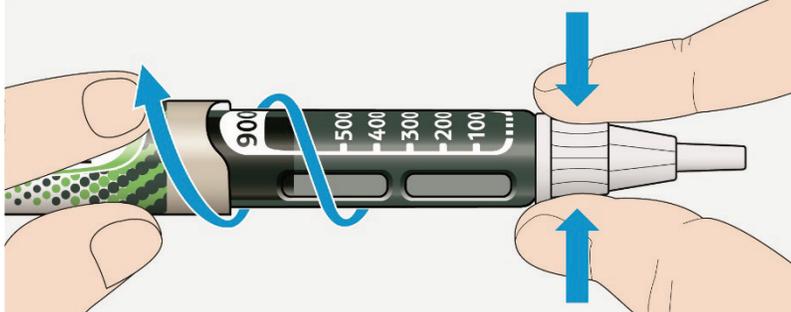
Then push firmly on.

- The needle can puncture the cap if it is recapped at an angle.



6B Grip and squeeze the widest part of the outer needle cap. Turn your pen several times with your other hand to remove the needle.

- Try again if the needle does not come off the first time.

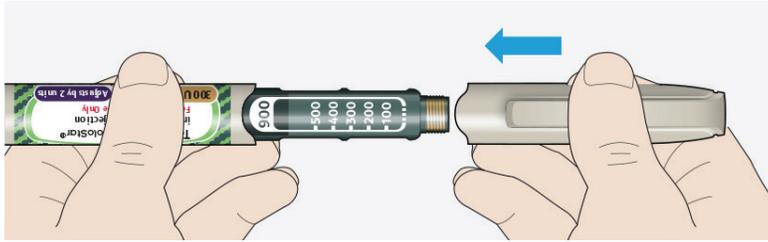


6C Throw away the used needle in a puncture-resistant container (see “Throwing your pen away” at the end of this Instructions for Use).



6D Put the pen cap back on.

- **Do not** put the pen back in the refrigerator.



Use by

- Only use your pen for up to **56 days** after its first use.

How to store your pen

Before first use

- Keep new pens in the refrigerator between **36°F and 46°F (2°C and 8°C)**.
- **Do not** freeze. Throw away your pen if it has been frozen (See “**Throwing your pen away**”).

After first use

- Keep your pen at room temperature **below 86°F (30°C)**.
- Protect your pen from direct heat and light.
- **Do not** put your pen back in the refrigerator.
- **Do not** store your pen with the needle attached.
- Store your pen with the pen cap on.
- Keep TOUJEO Max SoloStar pens and needles out of the reach of children.

How to care for your pen

Handle your pen with care

- **Do not** drop your pen or knock it against hard surfaces.
- If you think that your pen may be damaged, **do not** try to fix it. Use a new one.

Protect your pen from dust and dirt

- You can clean the outside of your pen by wiping it with a damp cloth (water only). **Do not** soak, wash or lubricate your pen. This may damage it.

Throwing your pen away

- Put the used TOUJEO Max SoloStar pen in a FDA-cleared sharps disposal container right away after use. **Do not** throw away (dispose of) the TOUJEO Max SoloStar pen in your household trash.
- If you do not have a FDA-cleared sharps disposal container, you may use a household container that is:
 - made of a heavy-duty plastic,
 - can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,
 - upright and stable during use,
 - leak-resistant, and
 - properly labeled to warn of hazardous waste inside the container.
- When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you

should throw away used needles and syringes. For more information about safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to the FDA's website at: <http://www.fda.gov/safesharpsdisposal>.

- **Do not** dispose of your used sharps disposal container in your household trash unless your community guidelines permit this. **Do not** recycle your used sharps disposal container.

This Instructions for Use has been approved by the U.S. Food and Drug Administration.

Revised: November 2019

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