

For the use only of a Registered Medical Practitioner or a Hospital or a Laboratory

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Insulin Glargine Injection (Monocomponent Insulin Glargine r-DNA Origin)

Toujeo™ SoloStar® 300U/mL

SANOFI

Active Ingredient

Insulin Glargine I.P.

Recombinant human insulin analogue (21^A-Gly-30^Ba-L-Arg-30^Bb-L-Arg-human insulin)

Insulin glargine is produced by recombinant DNA technology utilising *Escherichia coli* (K12 strain) as the production organism.

Therapeutic or Pharmacological Class

Antidiabetic agent, Long acting insulin analogue
Pharmacotherapeutic group: insulin and analogues, long acting.

Indication:

For the treatment of diabetes mellitus in adults.

Pharmaceutical Form(s)

Solution for injection

Composition

Active ingredient: insulin glargine 300 U/ml

1 ml contains 10.91 mg insulin glargine, corresponding to 300 U of insulin glargine.

Excipients:
Cartridge Excipients (per ml):
90 µg zinc, 2.7 mg m-cresol, 20 mg glycerol 85%; hydrochloric acid and sodium hydroxide for pH adjustment, and water for injection.

The pH of the solution is 4.0.

Dosage And Administration

Insulin glargine 300U/ml is a long-acting recombinant human insulin analogue product.

These units are exclusive to Toujeo™ and are not the same as IU or the units used to express the potency of other insulin analogues.

Toujeo™ exhibits a more constant and prolonged glucose-lowering profile than LANTUS.

Toujeo™ contains the same active ingredient, insulin glargine, as LANTUS.

Toujeo™ is given subcutaneously.

Toujeo™ is administered once daily, at any time during the day, preferably at the same time every day.

Toujeo™ allows for adaptability/flexibility in the once-daily time of administration. When needed, patients can administer their injections up to 3 hours before or after their usual time of administration

The desired blood glucose levels as well as the doses and timing of anti-hyperglycaemic medications must be determined and adjusted individually.

Dose adjustment may be required, for example, if the patient's weight or life-style changes, if there is a change in the timing of insulin dose or if other circumstances arise that increase susceptibility to hypo- or hyperglycaemia (see Section Precaution). Any change of insulin dose should be made cautiously and only under medical supervision.

Toujeo™ is not the insulin of choice for the treatment of diabetic ketoacidosis. An intravenous, short-acting insulin is the preferred treatment.

Blood glucose monitoring is recommended for all patients with diabetes.

Initiation of Toujeo™

Patients with type 1 diabetes mellitus

Toujeo™ is to be used once-daily with meal-time insulin and requires individual dose adjustments.

Patients with type 2 diabetes mellitus

The recommended daily starting dose is 0.2U/kg once daily followed by individual dosage adjustments.

Change from LANTUS (insulin glargine 100U/ml) or other basal insulins to Toujeo™

When changing from a treatment regimen with an intermediate-acting or another long-acting insulin product to a regimen with Toujeo™, the amount and timing of short-acting insulin or fast-acting insulin analogue product or of the dose of any anti-hyperglycaemic drug may need to be adjusted.

– Changing from once-daily basal insulin products to once-daily Toujeo™ can be done unit-to-unit based on the previous basal insulin dose.
– Changing from twice-daily basal insulin products to once-daily Toujeo™, the recommended initial Toujeo™ dose is 80% of the total daily dose of the basal insulin that is being discontinued.

A program of close metabolic monitoring under medical supervision is recommended during the change and in the initial weeks thereafter. As with all insulin analogues, this is particularly true for patients which, due to antibodies to human insulin, need high insulin doses and may experience a markedly improved insulin response with insulin glargine.

With improved metabolic control and resultant increase in insulin sensitivity (reduced insulin requirements) further adjustment of the doses of Toujeo™ and other insulin products or non-insulin anti-hyperglycaemic drugs in the regimen may become necessary.

Change from Toujeo™ to 100U/ml basal insulins

Medical supervision with close metabolic monitoring is recommended during the change and in the initial weeks thereafter.

Please refer to the prescribing information of the product to which the patient is changing.

Mixing, diluting

Toujeo™ must not be mixed with any other insulin products. Mixing changes the time/action profile of Toujeo™ and causes precipitation.

Toujeo™ must not be diluted. Diluting changes the time/action profile of Toujeo™.

SPECIAL POPULATIONS

Children

The safety and effectiveness of Toujeo™ have not been established in paediatric patients (under 18 years of age) (see *Section Pharmacokinetics-Special Population*).

Elderly

Toujeo™ can be used in elderly patients. Close glucose monitoring is recommended and the insulin dose should be adjusted on an individual basis.

In the elderly patients, progressive deterioration of renal function may lead to a steady decrease in insulin requirements (see *Sections Precautions, Clinical Efficacy/Clinical studies and Pharmacokinetics-Special Population*).

Renal impairment

Toujeo™ can be used in patients with renal impairment. Close glucose monitoring is recommended and the insulin dose should be adjusted on an individual basis.

In patients with renal impairment, insulin requirements may be diminished due to reduced insulin metabolism (see *Sections Precautions, Clinical Efficacy/Clinical studies and Pharmacokinetics-Special Population*).

Hepatic impairment

Toujeo™ can be used in patients with hepatic impairment. Close glucose monitoring is recommended and the insulin dose should be adjusted on an individual basis.

In patients with hepatic impairment, insulin requirements may be diminished due to reduced capacity for gluconeogenesis and reduced insulin metabolism (see *Sections Precautions, Clinical Efficacy/Clinical studies and Pharmacokinetics-Special Population*).

ADMINISTRATION

Toujeo™ is administered by subcutaneous tissue injection. As with all insulins, injection sites within an injection area (abdomen, thigh or deltoid) must be rotated from one injection to the next

Toujeo™ is not intended for intravenous administration.
The prolonged duration of activity of insulin glargine is dependent on injection into the subcutaneous tissue. Intravenous administration of the usual subcutaneous dose could result in severe hypoglycaemia.

Toujeo™ is not intended to be administered via an insulin infusion pump.

Toujeo™ is a clear solution, not a suspension. As such it does not require resuspension before use.

With Toujeo™ SoloStar® pre-filled pen, a dose of 1-80 units per injection, in steps of 1 unit, can be injected.

– The dose counter shows the number of units of Toujeo™ units to be injected. The Toujeo™ SoloStar® pre-filled pen has been specifically designed for Toujeo™, therefore no dose re-calculation is required.

– Toujeo™ must never be drawn from the cartridge of the pre-filled pen into a syringe (see Sections Precaution)

– **Patients must also be instructed to not re-use needles.** A new sterile needle must be attached before each injection. Re-use of needles increases the risk of blocked needles which may cause under dosing or overdosing. Using a new sterile needle for each injection also minimizes the risk of contamination and infection (see Sections Precautions).

CONTRAINDICATIONS

Toujeo™ must not be used in patients hypersensitive to insulin glargine or any of the excipients.

WARNINGS

No Core Safety Information

PRECAUTIONS

• General

Insulin therapy generally requires appropriate diabetes self-management skills, including glucose monitoring, proper injection technique, and hypo- and hyperglycaemia management. Patients should be instructed on such self-management procedures. Additionally, patients must be instructed in how to handle special situations such as an inadequate or skipped insulin dose, inadvertent administration of an increased insulin dose, inadequate food intake or skipped meals. The extent of patient participation in his/her diabetes management is variable and is generally determined by the physician.

Insulin treatment requires constant alertness to the possibility of hyper- and hypoglycaemia. Patients and their relatives must know what steps to take if hyperglycaemia or hypoglycaemia occurs or is suspected, and they must know when to inform a physician.

In case of insufficient glucose control or a tendency to hyper- or hypoglycaemic episodes, patient's compliance with the prescribed insulin regimen, injection sites and proper injection techniques, the handling of injection devices and all other relevant factors must be reviewed before dose adjustment is considered.

• Hypoglycaemia

The time of occurrence of hypoglycaemia depends on the action profiles of the insulin products used and may, therefore, change when the treatment regimen is changed.

As with all insulin products, particular caution should be exercised, and intensified blood glucose monitoring is advisable, in patients in whom sequelae of hypoglycaemic episodes might be of particular clinical relevance. For example these could be patients with significant stenoses of the coronary arteries or of the blood vessels supplying the brain (risk of cardiac or cerebral complications of hypoglycaemia) as well as patients with proliferative retinopathy, particularly if not treated with photocoagulation (risk of transient amaurosis following hypoglycaemia).

However, under certain conditions, as with all insulin products, the warning symptoms of hypoglycaemia may be changed, be less pronounced or absent, for example:

- if glycaemic control is markedly improved
- if hypoglycaemia is developing gradually
- in elderly patients
- where an autonomic neuropathy is present
- in patients with a long history of diabetes
- in patients suffering from a psychiatric illness
- in patients receiving concurrent treatment with certain other drugs (see Interactions)

Such situations may result in severe hypoglycaemia (and possibly, loss of consciousness) prior to patient's awareness of hypoglycaemia.

The prolonged effect of subcutaneous Toujeo™ may delay recovery from hypoglycaemia.

If normal or decreased values for glycated haemoglobin are noted, the possibility of recurrent, unrecognised (especially nocturnal) episodes of hypoglycaemia must be considered.

Compliance of the patient with the dosage and dietary regimen, correct insulin administration and awareness of hypoglycaemia symptoms are essential to reduce the risk of hypoglycaemia.

Presence of factors which increase the susceptibility to hypoglycaemia requires particularly close monitoring and may necessitate dose adjustment. These factors include:

- change in the injection area,
- increase of insulin sensitivity (e.g. by removal of stress factors),
- unaccustomed, increased or prolonged physical exercise,
- intercurrent illness (e.g. vomiting, diarrhoea),
- inadequate food intake,
- alcohol consumption,
- certain uncompensated endocrine disorders,
- concomitant treatment with certain medications (see Section Interactions).

In patients with renal impairment, insulin requirements may be diminished due to reduced insulin metabolism (see Sections Special Population, see *Sections Precautions, Clinical Efficacy/Clinical studies and Pharmacokinetics-Special Population*).

In the elderly, progressive deterioration of renal function may lead to steady decrease in insulin requirements (see Sections Special Population, see *Sections Precautions, Clinical Efficacy/Clinical studies and Pharmacokinetics-Special Population*).

In patients with severe hepatic impairment, insulin requirements may be diminished due to reduced capacity for gluconeogenesis and reduced insulin metabolism (see Sections Special Population, see *Sections Precautions, Clinical Efficacy/Clinical studies and Pharmacokinetics-Special Population*).

Hypoglycaemia can generally be corrected by immediate carbohydrate intake. So that initial corrective action can be taken immediately, patients must carry a minimum of 20grams of carbohydrates with them at all times.

Intercurrent illness

Intercurrent illness requires intensified metabolic monitoring. In many cases urine tests for ketones are indicated, and often it is necessary to adjust the insulin dose. The insulin requirement is often increased. In patients with type 1 diabetes, carbohydrate supplies must be maintained even if patients are able to eat only little or no food, or are vomiting etc.; in patients with type 1 diabetes insulin must never be omitted entirely.

• **Medication errors prevention**
Insulin label must always be checked before each injection to avoid medication errors between Toujeo™ and other insulins. Medication errors have been reported in which other insulins, particularly short-acting insulins, have been accidentally administered instead of long-acting insulins.

To avoid dosing errors and potential overdose, the patients must also be instructed to never use a syringe to remove Toujeo™ from the SoloStar pre-filled pen into a syringe (see Sections Administration, Overdose)

Patients must also be instructed to not re-use needles. A new sterile needle must be attached before each injection. Re-use of needles increases the risk of blocked needles which may cause underdosing or overdosing. In the event of blocked needles, the patients must follow the instructions described in Step 3 of the Toujeo™ SoloStar® Instructions for Use (see Sections Administration).

Like for all insulin pens, patients must visually verify the number of selected units on the dose counter of the pen. Patients who are blind or have poor vision must be instructed to get help/assistance from another person who has good vision and is trained in using the insulin device.

INTERACTIONS
A number of substances affect glucose metabolism and may require insulin dose adjustment and particularly close monitoring.

The following are examples of substances that may increase the blood glucose lowering effect and susceptibility to hypoglycaemia:

Anti-hyperglycaemic products, ACE inhibitors, salicylates, disopyramide; fibrates; fluoxetine, MAO inhibitors; pentoxifylline; propoxyphene; sulfonamide antibiotics.

The following are examples of **substances that may reduce the blood glucose lowering effect:**

Corticosteroids; danazol; diazoxide; diuretics; sympathomimetic agents (such as epinephrine, salbutamol, terbutaline); glucagon; isoniazid; phenothiazine derivatives; somatropin; thyroid hormones; estrogens, progestogens (e.g. in oral contraceptives), protease inhibitors and atypical antipsychotic medications (e.g. olanzapine and clozapine).

Beta-blockers, clonidine, lithium salts and alcohol may either potentiate or weaken the blood glucose lowering effect of insulin. Pentamidine may cause hypoglycaemia, which may sometimes be followed by hyperglycaemia.

In addition, under the influence of sympatholytic medicinal products such as beta-blockers, clonidine, guanethidine and reserpine, the signs of adrenergic counter-regulation may be reduced or absent.

PREGNANCY

There are no randomized controlled clinical studies of the use of Toujeo™ in pregnant women.

A large number (more than 1000 retrospective and prospective pregnancy outcomes with LANTUS) of exposed pregnancies from Post Marketing Surveillance indicate no specific adverse effects on pregnancy or on the health of the foetus and newborn child. Furthermore a meta-analysis of eight observational clinical studies including 331 women using LANTUS and 371 women using insulin NPH was performed to assess the safety of insulin glargine and insulin NPH in gestational or pregestational diabetes. No significant differences in safety-related maternal or neonatal outcomes were seen between insulin glargine and insulin NPH during pregnancy.

Animal studies, with doses of insulin glargine 100 U/ml up to 6 to 40 times the human doses, do not indicate direct harmful effects on the pregnancy.

It is essential for patients with pre-existing or gestational diabetes to maintain good metabolic control throughout pregnancy to prevent adverse outcomes associated with hyperglycaemia. Toujeo can be used during pregnancy, if clinically needed.

Insulin requirements may decrease during the first trimester and generally increase during the second and third trimesters. Immediately after delivery, insulin requirements decline rapidly. Careful monitoring of glucose control, is essential in such patients.

Patients with diabetes must inform their doctor if they are pregnant or are contemplating pregnancy.

LACTATION

Lactating women may require adjustments in insulin dose and diet.

DRIVING A VEHICLE OR PERFORMING HAZARDOUS TASKS
The patient's ability to concentrate and react may be impaired as a result of, for example, hypoglycaemia or hyperglycaemia or, for example, as a result of visual impairment. This may constitute a risk in situations where these abilities are of special importance (e.g. driving a car or operating machinery).

Patients should be advised to take precautions to avoid hypoglycaemia whilst driving. This is particularly important in those who have reduced or absent awareness of the warning symptoms of hypoglycaemia or have frequent episodes of hypoglycaemia. The advisability of driving should be considered in these circumstances.

ADVERSE REACTIONS

The following adverse reactions were observed during clinical studies conducted with Toujeo (see Section Clinical Efficacy/Clinical Studies) and during clinical experience with insulin glargine 100 U/ml.

*The following CIOMS frequency rating is used, when applicable:
Very common ≥10%; Common ≥1 and <10%; Uncommon ≥0.1 and <1%; Rare ≥0.01 and <0.1%; Very rare <0.01%; Not known (cannot be estimated from available data).*

Hypoglycaemia

Hypoglycaemia, in general the most frequent adverse reaction of insulin therapy, may occur if the insulin dose is too high in relation to the insulin requirement.

As with all insulins, severe hypoglycaemic attacks, especially if recurrent, may lead to neurological damage. Prolonged or severe hypoglycaemic episodes may be life-threatening.

In many patients, the signs and symptoms of neuroglycopenia are preceded by signs of adrenergic counter-regulation. Generally, the greater and more rapid the decline in blood glucose, the more marked is the phenomenon of counter-regulation and its symptoms.

For hypoglycaemia incidences from clinical trials, see table in Section Clinical Efficacy/Clinical Studies.

Eyes

A marked change in glycaemic control may cause temporary visual impairment, due to temporary alteration in the turgidity and refractive index of the lens.

Long-term improved glycaemic control decreases the risk of progression of diabetic retinopathy. However, as for all insulin regimens, intensification of insulin therapy with abrupt improvement in glycaemic control may be associated with temporary worsening of diabetic retinopathy.

In patients with proliferative retinopathy, particularly if not treated with photocoagulation, severe hypoglycaemic episodes may result in transient amaurosis.

See Section Clinical Efficacy/Clinical Studies for additional information regarding retinopathy study results.

Lipodystrophy

Lipodystrophy, as with any insulin therapy, may occur at the injection site and delay insulin absorption. In clinical studies, in regimens which included insulin glargine, lipohypertrophy was observed in 1 to 2% of patients, whereas lipatrophy was uncommon. Continuous rotation of the injection site within a given area may help to reduce or prevent these reactions.

• Allergic reactions

Local Allergy at the injection site

As with any insulin therapy, such reactions include redness, pain, itching, hives, swelling, and inflammation. In Toujeo™ clinical studies in adult patients, the incidence of overall **injection site reactions** was similar in Toujeo™ treated patients (2.5%) and LANTUS-treated patients (2.8%). Most minor reactions to insulins usually resolve in a few days to a few weeks.

Systemic Allergy

Immediate-type allergic reactions are rare. Such reactions to insulin (including insulin glargine) or the excipients may, for example, be associated with generalised skin reactions, angioedema, bronchospasm, and hypotension and anaphylactic shock, and may be life threatening.

• Other reactions

Insulin administration may cause **anti-insulin antibodies** to form. In clinical studies comparing Toujeo™ and LANTUS, anti-insulin antibodies were observed with similar frequencies in both treatment groups.

As with all insulins, in rare cases, the presence of such anti-insulin antibodies may necessitate adjustment of the insulin dose in order to correct a tendency to hyperglycaemia or hypoglycaemia (see Section Clinical Efficacy/Clinical Studies).

Insulin may cause, in rare cases, sodium retention and oedema, particularly if previously poor metabolic control is improved by intensified insulin therapy.

• Paediatric population

The safety profile for patients ≤18 years of age has not been established.

OVERDOSE

SIGNS AND SYMPTOMS

An excess of insulin, relative to food intake, energy expenditure or both, may lead to severe and sometimes prolonged and life-threatening hypoglycaemia.

MANAGEMENT

Mild episodes of hypoglycaemia can usually be treated with oral carbohydrates. Adjustments in drug dosage, meal patterns, or exercise may be needed.

More severe episodes culminating in 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 hypoglycaemia may recur after apparent clinical recovery.

INTERFERENCES WITH LABORATORY AND DIAGNOSTIC TEST

None known

ABUSE AND DEPENDENCE

No risk of abuse or dependence is likely to occur with Toujeo™

PHARMACODYNAMICS

MODE OF ACTION/PHARMACODYNAMIC CHARACTERISTICS

Mode of action

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

Pharmacodynamic characteristics

Insulin glargine is a human insulin analog that has been designed to have low aqueous solubility at neutral pH. 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 continuously released.

In euglycaemic clamp studies in healthy subjects or in patients with type 1 diabetes, the onset of action of subcutaneous LANTUS was slower than with NPH insulin, its effect profile was smooth and peakless, and the duration of its effect was prolonged

As observed in euglycemic clamp studies in patients with type 1 diabetes, the glucose lowering effect of Toujeo™ was more constant and prolonged in comparison with LANTUS after subcutaneous injection.

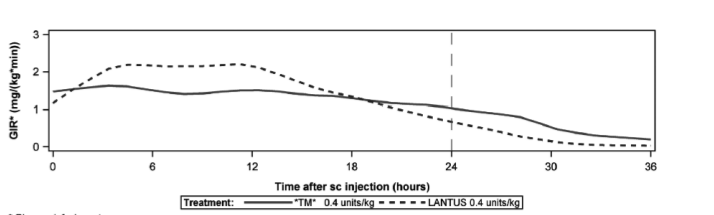
Figure 1 shows results from a cross-over study in 18 patients with type 1 diabetes conducted for a maximum of 36 hours after injection. The effect of Toujeo™ was beyond 24 hours (up to 36 hours) at clinically relevant doses.

The prolonged glucose lowering effect of Toujeo™ beyond 24 hours allows flexibility/adaptability in the once-daily time of administration of Toujeo™ (see Sections General and Clinical Efficacy/Clinical Studies).

The difference of profile between Toujeo™ and LANTUS is attributable to the modification of the release of insulin glargine from the precipitate.

For the same number of insulin glargine units injected, the injected volume of Toujeo™ is one third that of LANTUS. This leads to a reduction of the precipitate surface area which provides a more sustained release of insulin glargine from the Toujeo™ precipitate compared to LANTUS.

Figure 1¹⁰³ - Activity Profile in Patients with T1DM in a 36-hour Euglycemic Clamp Study



*Glucose infusion rate

Glucose infusion rate: determined as amount of glucose infused to maintain constant plasma glucose levels (hourly mean values). The end of the observation was 36 hours.

In clinical pharmacology study, intravenous use of insulin glargine and human insulin has been shown to be equipotent when given at the same doses.

Insulin glargine is metabolized into 2 active metabolites M1 and M2 (see Section Elimination).

Insulin receptor binding: In vitro studies indicate that the affinity of insulin glargine and its metabolites M1 and M2 for the human insulin receptor is similar to the one of human insulin.

IGF-1 receptor binding: The affinity of insulin glargine for the human IGF-1 receptor is approximately 5 to 10-fold greater than that of human insulin (but approximately 70 to 80-fold lower than the one of IGF-1), whereas M1 and M2 bind the IGF-1 receptor with slightly lower affinity compared to human insulin.

The total therapeutic insulin concentration (insulin glargine and its metabolites) found in type 1 diabetic patients was markedly lower than what would be required for a halfmaximal occupation of the IGF-1 receptor and the subsequent activation of the mitogenic-proliferative pathway initiated by the IGF-1 receptor. Physiological concentrations of endogenous IGF-1 may activate the mitogenic-proliferative pathway; however, the therapeutic concentrations found in insulin therapy, including in Toujeo™ therapy, are considerably lower than the pharmacological concentrations required to activate the IGF-1 pathway.

CLINICAL EFFICACY/CLINICAL STUDIES

The overall efficacy and safety of Toujeo™ once-daily on glycaemic control was compared to that of once-daily LANTUS in open-label, randomized, active-control, parallel studies of up to 26 weeks of duration, including 546 patients with type 1 diabetes mellitus (Table 1) and 2474 patients with type 2 diabetes mellitus (Table 2).

Results from all clinical trials with Toujeo™ indicated that reductions in HbA1c from baseline to end of trial were non-inferior to LANTUS.

The proportion of patients who reached the target HbA1c value (below 7%) was similar in both treatment groups.

Plasma glucose reductions at the end of the trial with Toujeo™ were similar to LANTUS with a more gradual reduction during the titration period with Toujeo™.

Glycaemic control was similar when Toujeo™ was administered once daily in the morning or in the evening.

Flexible/adaptable time of administration (within 3 hours before or after the patient's usual injection time) had no effect on glycaemic control.

Mean change in body weight of less than 1 kg at the end of the 6-month period was observed in Toujeo-treated patients.

Improvement in HbA1c was not affected by, gender, ethnicity, age, diabetes duration (<10 years and ≥10 years), HbA1c value at baseline (<8% or ≥8%) or baseline body mass index (BMI).

Type 1 Adult Diabetes (Table 1). In an open-label, controlled study (Study A), patients with type 1

Type 2 Adult Diabetes

- Studies of Toujeo™ in combination with mealtime insulin+/- oral antidiabetic drugs, as background therapy** (Table 2)

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. Toujeo™ was associated with a similar reduction in HbA1c as LANTUS.

- Studies of Toujeo™ in combination with non-insulin anti-hyperglycaemic drugs, as background therapy** (Table 2)

In two open-label, controlled studies (n= 1670), adults with type 2 diabetes mellitus were randomized to Toujeo™ or LANTUS once daily for 26 weeks as part of a regimen of combination therapy with non-insulin anti-hyperglycaemic agents. At the time of randomization, 808 patients were treated with basal insulin for more than 6 months (Study C) and 862 patients were insulin-naïve (Study D).

Toujeo™ was associated with a similar reduction in HbA1c as LANTUS

Treatment duration with	Study B		Study C		Study D	
	26 weeks		26 weeks		26 weeks	
	Mealtime insulin analog+/- metformin	Non-insulin anti-hyperglycaemic agents	Toujeo	LANTUS	Toujeo	LANTUS
Number of subjects treated (n/ITT) ^a	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 ^b		-0.03		-0.03		0.04
[95% Confidence interval]		[-0.144 to 0.083]		[-0.168 to 0.099]		[-0.090 to 0.174]
FPG^c (mmol/L)						
Baseline mean	8.74	8.90	8.25	7.90	9.93	10.21
Adjusted mean change from baseline	-1.63	-1.68	-1.03	-1.20	-3.41	-3.80
Adjusted mean difference ^b		0.05		0.17		0.39
[95% Confidence interval]		[-0.293 to 0.386]		[-0.180 to 0.519]		[0.100 to 0.676]
Basal insulin dose^d (U/kg)						
Baseline mean	0.67	0.67	0.64	0.66	0.19	0.19
Mean change from baseline	0.31	0.22	0.30	0.19	0.43	0.34
Total insulin dose^e (U/kg)						
Baseline mean	1.19	1.19	-	-	-	-
Mean change from baseline	0.35	0.27	-	-	-	-
Body weight^f (kg)						
Baseline mean	106.11	106.50	98.73	98.17	95.14	95.65
Mean change from baseline	0.93	0.90	0.08	0.66	0.30	0.71

^a m-ITT population. Modified intention-to-treat population

^b Treatment difference: Toujeo - Lantus

^c Fasting plasma glucose

^d Change from baseline to Month 6 (observed case)

^e Change from baseline to Last main (non-zero) measurement value

The effect on the risk of hypoglycaemia of Toujeo™ was compared to that of LANTUS in clinical trials in patients with type 1 diabetes mellitus and type 2 diabetes mellitus (Table 3).

In patients with type 2 diabetes, results from clinical trials demonstrated that the incidence of severe and/or confirmed hypoglycaemia and documented symptomatic hypoglycaemia was lower in patients treated with Toujeo™ compared to LANTUS-treated patients.

The superiority of Toujeo™ over LANTUS in lowering the risk of severe and/or confirmed nocturnal hypoglycaemia was shown in patients previously treated with either oral anti-hyperglycaemic agents (23% risk reduction) or mealtime insulin (21% risk reduction) during the period from week 9 to end of the study period compared to LANTUS.

In insulin pre-treated patients as well as insulin naïve patients a reduction of hypoglycaemia risk was observed and the reduction was greater during first 8 weeks of treatment (initiation period).

Overall, these effects on hypoglycaemia risk were consistently observed whatever the age, gender, race, body mass index (BMI) and duration of diabetes (<10 years and ≥10 years) in Toujeo™ -treated patients compared to LANTUS-treated patients.

In patients with type 1 diabetes, the incidence of hypoglycaemia was similar in patients treated with Toujeo™ compared to LANTUS-treated patients. However, the incidence of nocturnal hypoglycaemia was lower in patients treated with Toujeo™ for all categories of hypoglycaemia during the initiation period compared to LANTUS-treated patients.

Table 3 Summary of the hypoglycaemic episodes of the clinical study in patients with type 1 and type 2 diabetes mellitus.

Diabetic population	Type 1 diabetes mellitus Previously on basal insulin	Type 2 diabetes mellitus Previously on basal insulin	Type 2 diabetes mellitus Previously on basal insulin or insulin naïve
Treatment in combination with	Mealtime insulin analog+/-oral anti-hyperglycaemic agents	Mealtime insulin analog+/-metformin	Non-insulin anti-hyperglycaemic agents
	TOUJEO™	LANTUS	TOUJEO™
	LANTUS	TOUJEO™	LANTUS
Incidence (%) of severe^a hypoglycaemia (n/Total N)			
Entire study period	6.6 (18/274)	9.5 (26/275)	5.0 (20/404)
			5.7 (8/838)
			1.0 (10/844)
			RR: 0.82 [0.33; 2.00]
Patients ≥65	0 (0/29)	11.3 (3/26)	6.3 (8/127)
			8.4 (10/119)
			1.0 (2/220)
			1.9 (4/213)
			RR: 0.64 [0.16; 2.54]
			<i>Not estimated</i>
Initiation period	3.3 (9/274)	5.1 (14/275)	1.5 (6/404)
			2.7 (11/402)
			0.2 (2/838)
			0.5 (4/844)
			RR: 0.65 [0.29; 1.45]
			RR: 0.54 [0.20; 1.45]
			RR: 0.60 [0.15; 2.52]
Incidence (%) of severe and/or confirmed^b hypoglycaemia (n/Total N)			
Entire study period	93.1 (259/274)	93.5 (257/275)	81.9 (333/404)
			87.8 (353/402)
			57.6 (483/838)
			64.5 (544/844)
			RR: 1.00 [0.95; 1.04]
			RR: 0.93 [0.88; 0.99]
			RR: 0.89 [0.83; 0.96]
Patients ≥65	86.2 (25/29)	92.3 (24/26)	82.7 (105/127)
			88.2 (105/119)
			64.5 (129/200)
			71.4 (152/213)
			RR: 0.91 [0.74; 1.13]
			RR: 0.94 [0.85; 1.05]
			RR: 0.92 [0.80; 1.04]

Diabetic population	Type 1 diabetes mellitus Previously on basal insulin	Type 2 diabetes mellitus Previously on basal insulin	Type 2 diabetes mellitus Previously on basal insulin or insulin naïve
Treatment in combination with	Mealtime insulin analog+/-oral anti-hyperglycaemic agents	Mealtime insulin analog+/-metformin	Non-insulin anti-hyperglycaemic agents
	TOUJEO™	LANTUS	TOUJEO™
	LANTUS	TOUJEO™	LANTUS
Incidence (%) of severe and/or confirmed^a nocturnal^b hypoglycaemia (n/Total N)			
Entire study period	68.6 (188/274)	70.2 (193/275)	44.6 (180/404)
			57.5 (231/402)
			22.9 (192/838)
			31.4 (265/844)
			RR: 0.58 [0.88; 1.09]
			RR: 0.78 [0.68; 0.89]
			RR: 0.73 [0.62; 0.85]
Patients ≥65	62.1 (18/29)	61.5 (16/26)	43.2 (55/127)
			63.9 (76/119)
			24.5 (49/200)
			34.3 (73/213)
			RR: 0.99 [0.61; 1.61]
			RR: 0.68 [0.53; 0.86]
			RR: 0.72 [0.53; 0.98]
Initiation period	46.7 (128/274)	57.1 (157/275)	26.2 (106/404)
			33.3 (134/402)
			10.1 (85/838)
			17.1 (144/844)
			RR: 0.82 [0.70; 0.96]
			RR: 0.79 [0.64; 0.98]
			RR: 0.59 [0.46; 0.76]
Incidence (%) of documented symptomatic^c hypoglycaemia (n/Total N)			
Entire study period	85.0 (233/274)	83.6 (230/275)	70.0 (283/404)
			77.9 (313/402)
			39.7 (333/838)
			46.2 (390/844)
			RR: 1.02 [0.95; 1.09]
			RR: 0.90 [0.83; 0.98]
			RR: 0.86 [0.77; 0.96]
Initiation period	78.1 (214/274)	77.1 (212/275)	49.5 (200/404)
			61.7 (248/402)
			21.2 (178/838)
			28.3 (239/844)
			RR: 1.01 [0.93; 1.11]
			RR: 0.80 [0.71; 0.91]
			RR: 0.75 [0.64; 0.89]

^a Severe hypoglycaemia: Episode requiring assistance of another person to actively administer carbohydrate, glucagon, or other resuscitative actions.

^b Any severe hypoglycaemia and/or hypoglycaemia confirmed by plasma glucose value ≤70 mg/dl (3.9 mmol/L).

^c Any event during which typical symptoms of hypoglycaemia were accompanied by a measured plasma glucose concentration of ≤70mg/dl (3.9 mmol/L).

^d Nocturnal hypoglycaemia: Episode that occurred between 00:00 and 05:59 hours

^e 6-month treatment period

^f RR: estimated risk ratio

- Adaptability/flexibility in time of administration** (Table 4)

The safety and efficacy of Toujeo™ administered with a fixed or flexible/adaptable time of administration were also evaluated in 2 randomized, open-label clinical studies for 3 months. Type 2 diabetic patients (n=194) received Toujeo™ once daily in the evening, either at the same time of the day (fixed time of administration) or within 3 hours before or after the usual time of administration (flexible/adaptable time of administration).The flexible/adaptable time of administration was used at least 2 days per week. The interval of time between 2 injections was as short as 18 to as long as 30 hours.

In both studies, once-daily administration of Toujeo™, with fixed or flexible/adaptable time of administration had similar effects on HbA1c, FPG and average pre-injection SMPG. In addition, no difference in the incidence of hypoglycaemia at any time of the day or nocturnal hypoglycaemia was observed when Toujeo™ was administered with a fixed or adaptable/flexible time of administration.

Treatment	Toujeo	
	Mealtime insulin analog+/-metformin ^a vs 90 vs 90	Non-insulin anti-hyperglycaemic agents ^b vs 90 vs 90
Treatment in combination with		
Time of administration	Fixed (every 24 hours)	Flexible/Adaptable (every 24 hours ± 3 hours)
Number of subjects treated (m-ITT population)	53	55
	42	44
HbA_{1c} (%)		
Baseline (mean)	7.17	7.21
Adjusted mean change from baseline	0.15	0.21
Adjusted mean difference ^c		0.05
[95% confidence interval]		[-0.189 to 0.295]
FPG^d (mmol/L)		
Baseline (mean)	6.71	7.33
Adjusted mean change from baseline	1.17	1.44
Adjusted mean difference ^c		0.27
[95% confidence interval]		[-0.590 to 1.128]
Pre-injection SMPG^e (mmol/L)		
Baseline (mean)	8.51	8.60
Adjusted mean change from baseline	-0.45	-0.06
Adjusted mean difference ^c		0.39
[95% confidence interval]		[-0.241 to 1.016]
Incidence (%) of any hypoglycaemia^f (n/Total N)		
At any time of the day	66.0 (33/53)	57.1 (32/56)
	41.9 (18/43)	36.4 (16/44)
Nocturnal ^g hypoglycaemia	22.6 (12/53)	26.8 (15/56)
	15.9 (7/44)	17.0 (7/41)

^a Treatment difference: TM-Toujeo Flexible versus fixed time of administration

^b m-ITT: modified intention-to-treat

^c FPG: Fasting plasma glucose

^d Average Pre-injection SMPG: Self-monitored plasma Glucose was the plasma glucose measured by the patients within 30 minutes prior to injection of the basal insulin injection.

^e Number (%) of patients with at least one hypoglycemia event during the 3-month study period.

^f Nocturnal hypoglycaemia was defined as hypoglycemia occurring between 00:00 and 05:59 hours.

Antibodies

Results from studies comparing Toujeo™ and LANTUS did not indicate any difference in term of development of insulin antibodies, on efficacy, safety or dose of basal insulin between Toujeo™ and LANTUS-treated patients (see Section Adverse Reactions).

- ORIGIN Trial (Study 4032)**

The ORIGIN (Outcome Reduction with Initial Glargine [ntervention) trial was a, international, multicenter, randomized, 2x2 factorial design study conducted in 12,537 participants with impaired fasting glucose (IFG), impaired glucose tolerance (IGT) or early type 2 diabetes mellitus and evidence of CV disease. Participants were randomized to receive LANTUS (insulin glargine 100 U/ml) (n=6264), titrated to a FPG of 95 mg/dL (5.3mM) or less, or Standard Care (n=6273). At baseline participants had a mean age of 63.5 years, mean duration of diabetes of 5.8 years in those with pre-existing diabetes, and median HbA1c of 6.4%. Median duration of follow-up was approximately 6.2 years.

At the end of the trial 81% of participants randomized to take insulin glargine 100 U/ml were still on treatment.

Median on-treatment HbA1c values ranged from 5.9 to 6.4% in the insulin glargine 100U/ml group, and 6.2% to 6.6% in the Standard Care group throughout the duration of follow-up. Median FPG in the insulin glargine 100U/ml group was at target (≤95 mg/dL) following dose titration for the duration of the study.

The rates of severe hypoglycemia (affected participants per 100 participant years of exposure) were 1.05 for insulin glargine 100 U/mL and 0.30 for Standard Care group. Overall, severe hypoglycemia was reported for 3.7% of these participants over the course of this 6 year study (approximately 0.6% per participant-year). The median of the

change in body weight from baseline to the last on-treatment visit was 2.2 kg greater in the insulin glargine 100 units/ml group than in the Standard Care group.

The primary objective of this trial was to examine the effect of insulin glargine 100 U/ml on two co-primary composite efficacy outcomes. The first one was the time to the first occurrence of CV death, nonfatal myocardial infarction (MI), or nonfatal stroke, and the second one was the time to the first occurrence of any of the first co-primary events, or revascularization procedure (cardiac, carotid, or peripheral), or hospitalization for heart failure.

Secondary endpoints were:

- all-cause mortality
- a composite microvascular outcome
- development of type 2 diabetes, in participants with IGT and/or IFG at baseline

The primary and secondary outcome results, as well as the results for each component of the coprimary outcomes, are displayed in the two tables (Table 5 for the time-to-event analyses, and, for the non-time-to-event analysis of development of diabetes, Table 6), below.

Treatment (N)	*Insulin glargine 100 U/ml ^a N=6264	Standard care N=6273	*Insulin glargine 100 U/ml ^a vs Standard care
	Participants with Events N (%)	Participants with Events N (%)	Hazard Ratio (95% CI)
Primary endpoints			
CV death, nonfatal myocardial infarction (MI), or nonfatal stroke	1041 (16.6)	1013 (16.1)	1.02 (0.94, 1.11)
CV death, nonfatal myocardial infarction (MI), or nonfatal stroke, or hospitalization for heart failure or revascularization procedure	1792 (28.6)	1727 (27.5)	1.04 (0.97, 1.11)
Secondary endpoints			
All-cause mortality	951 (15.2)	965 (15.4)	0.98 (0.90, 1.08)
Composite microvascular outcome ^b	1323 (21.1)	1363 (21.7)	0.97 (0.90, 1.05)

^aComponents of coprimary endpoint

CV death

MI (fatal or non-fatal)

Stroke (fatal or non-fatal)

Revascularizations

Hospitalization for heart failure

^bwith components of laser photocoagulation or vitrectomy for diabetic retinopathy; progression in laminitis; or doubling of serum creatinine or development of the need for renal replacement therapy.

Treatment (N)	*Insulin glargine 100 U/ml ^a (6264)	Standard Care (6273)
	Participants with Events N (%)	Participants with Events N (%)
Number of Participants**	737	719
# participants who developed diabetes (b)	182 (24.7)	224 (31.2)
Odds Ratio (95% CI)		0.72 (0.58 to 0.91)

^aEnd of study OGTT was performed 3-4 weeks after discontinuing insulin glargine 100 units/ml

^bParticipants with prediabetes (IFG or IGT) at baseline, based on an OGTT performed then.

Treatment (N)	*Insulin glargine 100 U/ml ^a (6264)	Standard Care (6273)
	Participants with Events N (%)	Participants with Events N (%)
Number of Participants**	737	719
# participants who developed diabetes (b)	182 (24.7)	224 (31.2)
Odds Ratio (95% CI)		0.72 (0.58 to 0.91)

^aEnd of study OGTT was performed 3-4 weeks after discontinuing insulin glargine 100 units/ml

^bParticipants with prediabetes (IFG or IGT) at baseline, based on an OGTT performed then.

There were no statistical significant differences between treatment groups in the overall incidence of cancer (all types combined) or death from cancer. The time to first event of any cancer or new cancer during the study was similar between the two treatment groups with respective hazard ratios of 0.99 (0.88, 1.11) and 0.96 (0.85, 1.09).

Participation in ORIGIN for a median of approximately 6.2 years showed that treatment with insulin glargine 100 U/ml did not alter the risk for cardiovascular outcomes, all-cause mortality or cancer, when compared to standard glucose lowering therapy. In addition, metabolic control was maintained at a lower level of glycemia, with a decrease in the percentage of participants developing diabetes, at a cost of a modest increase in hypoglycemia and weight gain.

- Diabetic Retinopathy:**

Toujeo™ SoloStar® (insulin glargine U300) Instruction Leaflet

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™ SoloStar® contains 300 units/mL insulin glargine.

- **Never re-use needles.** If you do you might not get your dose (underdosing) or get too much (overdosing) as the needle could block.
- **Never 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.

Important information

- ✗ Never share your pen – it is only for you.
- ✗ Never use your pen if it is damaged or if you are not sure that it is working properly.
- ✓ Always perform a safety test
- ✓ Always carry a spare pen and spare needles in case they got lost or stop working.

Learn to inject

- Talk with your healthcare provider about how to inject, before using your pen.
- Ask for help if you have problems handling the pen, for example if you have problems with your sight.
- 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.

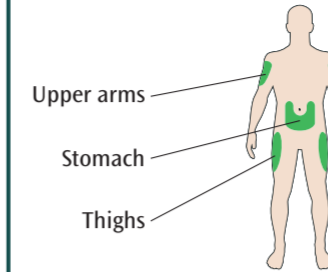
Need help?

If you have any questions about your pen or about diabetes, ask your healthcare provider, or contact us via Sanofi Bangladesh Limited 6/2/A Segun Bagicha, Dhaka-1000 Bangladesh

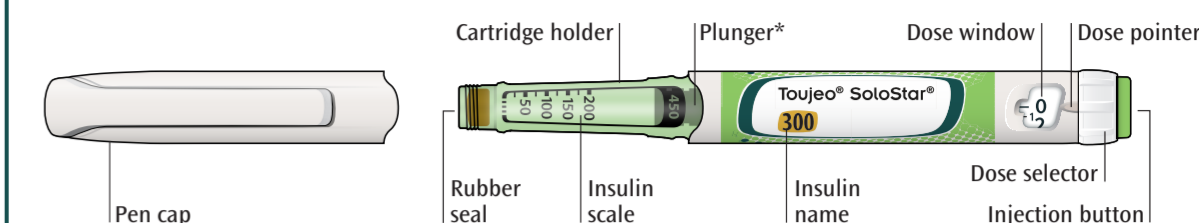
Extra items you will need:

- a new sterile needle (see STEP 2).
- an alcohol swab
- a puncture resistant container for used needles and pens.

Places to inject



Get to know your pen



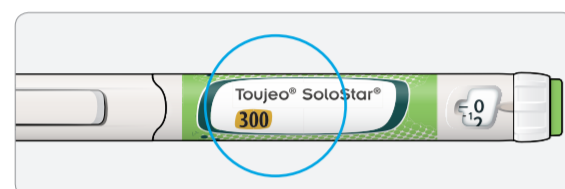
* You will not see the plunger until you have injected a few doses.

STEP 1: Check your pen

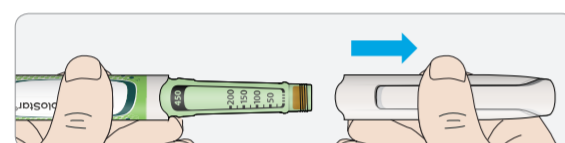
- ✓ Take a new pen out of the fridge at least 1 hour before you inject. Cold insulin is more painful to inject.

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

- Make sure you have the correct insulin.
- Never use your pen after the expiration date.

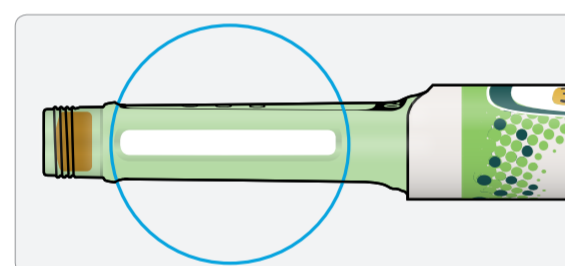


1B Pull off the pen cap.

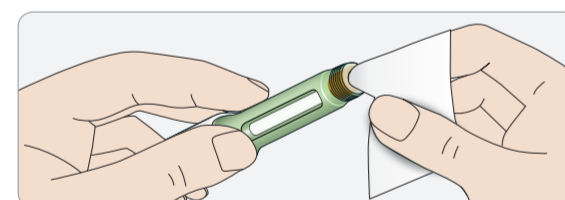


1C Check that the insulin is clear.

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



1D Wipe the rubber seal with an alcohol swab



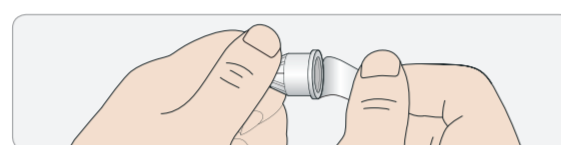
1 If you have other injector pens

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

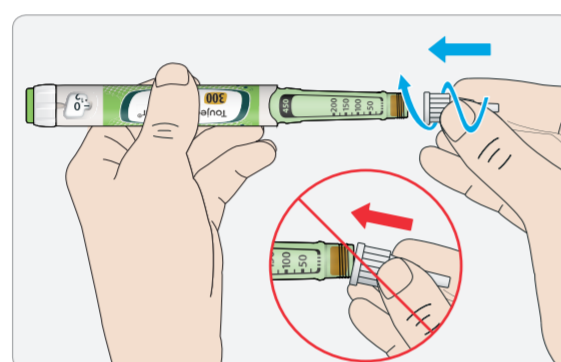
STEP 2: Attach a new needle

- ✓ Do not reuse needles. Always use a new sterile needle for each injection. This helps stop blocked needles, contamination and infection.
- ✓ Always use needles that are compatible for use with Toujeo.

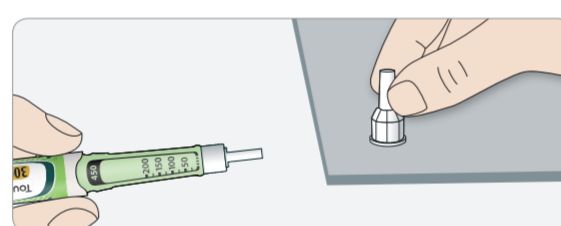
2A Take a new needle and peel off the protective seal.



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



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



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



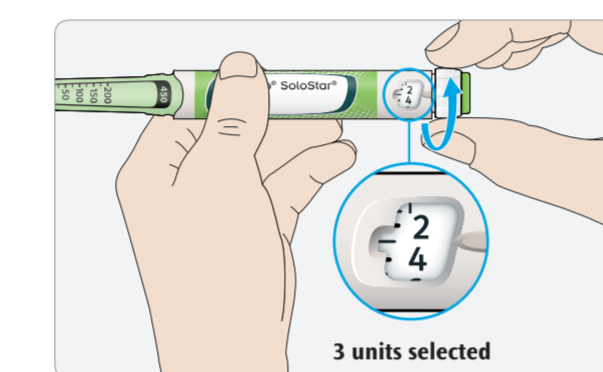
1 Handling needles

- Take care when handling needles – this is to prevent needle injury and cross-infection.

STEP 3: Do a safety test

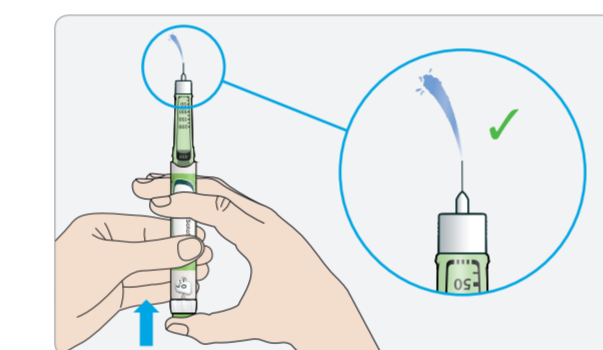
- ✓ Always do a safety test before each injection – this is to:
 - check your pen and the needle are working properly.
 - make sure that you get the correct insulin dose.

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 (STEP 3).
- Do not use your pen if there is still no insulin coming out of the needle tip. Use a new pen.
- Never use a syringe to remove insulin from your pen.

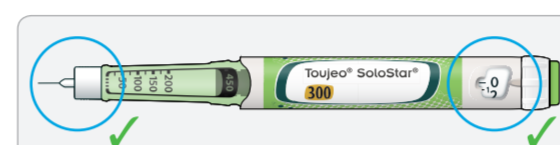
1 If you see air bubbles

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

STEP 4: Select the dose

- ✗ Never select a dose or press the injection button without a needle attached. This may damage your pen.

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.

- 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 two injections or use a new pen.



How to read the dose window
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

1 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 in steps of 1 unit. Each pen contains more than one dose.
- You can see roughly how many units of insulin are left by looking at where the plunger is on the insulin scale.

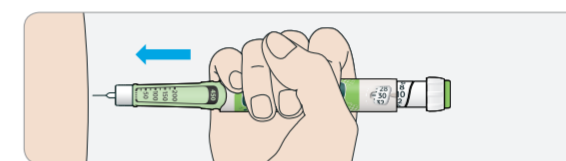
STEP 5: Inject your dose

- ✗ If you find it hard to press the injection button in, do not force it as this may break your pen. See the 11 section below for help.

5A Choose a place to inject as shown in the picture above.

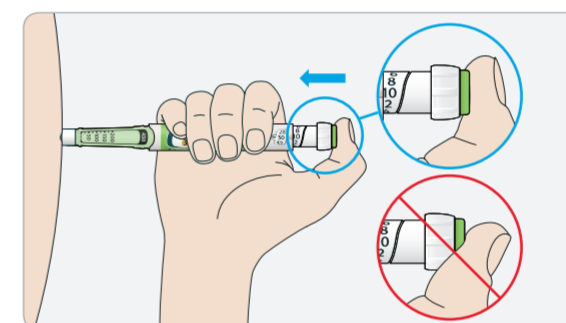
5B Push the needle into your skin as shown by your healthcare provider.

- Do not touch the injection button yet.



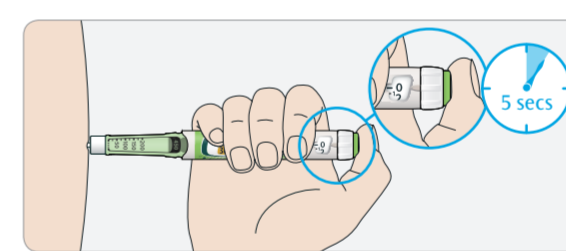
5C Place your thumb on the injection button. Then press all the way in and hold.

- 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.

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

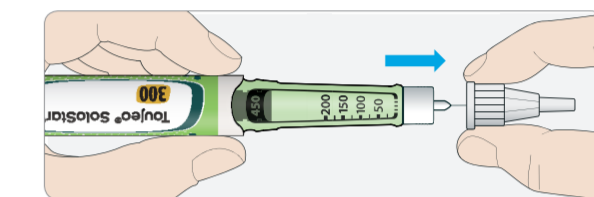
- Change the needle (see STEP 6 and STEP 2) then do a safety test (see STEP 3).
- If you still find it hard to press in, get a new pen.
- Never use a syringe to remove insulin from your pen.

STEP 6: Remove the needle

- ✓ Take care when handling needles – this is to prevent needle injury and cross-infection.
- ✗ Never put the inner needle cap back on.

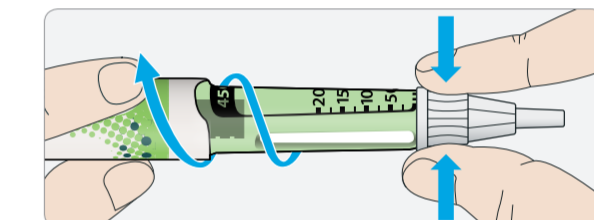
6A Grip the widest part of the outer needle cap. Keep the needle straight and guide it into the outer needle cap. Then push firmly on.

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

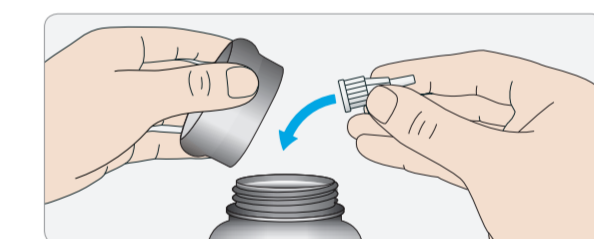


6B Grip and squeeze the widest part of the outer needle cap. Turn your pen several times with your other hand to remove the needle.

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

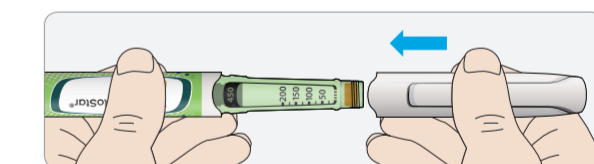


6C Throw away the used needle in a puncture resistant container, or as told by your healthcare provider or local authority.



6D Put the pen cap back on.

- Do not put the pen back in the fridge.



Use by

- Only use your pen for up to 6 weeks after its first use.

How to store your pen

Before first use

- Keep new pens in a fridge, at 36°F to 46°F (2°C to 8°C).
- Do not freeze.

After first use

- Keep your pen at room temperature, below 86°F (30°C).
- Never put your pen back in the fridge.
- Never store your pen with the needle attached.
- Store your pen with the pen cap on.

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

- Remove the needle before throwing your pen away.
- Throw away your used pen as told by your healthcare provider or local authority.

Updated:
April 2018
Source :
CCDM ver 1.1
July 2015

Legende / Legend

SAP-Nr. 544663A
Sprachvariante / Country code: 226
Version: 1
Datum / Date: 04.03.2019 Sid.






Abmessungen / Dimensions: 594 x 420 mm
SRZ: 527794
Schriftgröße / Font size: 9 Pt
Zeilenabstand / Line spacing: 10 Pt
Seite / Page: 3/4

Druckbare Farben / Printing colours

Black ■

Technische Information / Technical information

Kontur / Outline ■

Legende / Legend		Druckbare Farben / Printing colours		Technische Information / Technical information			
SAP-Nr.	544663A	Abmessungen / Dimensions:	594 × 420 mm	Cyan		Kontur / Outline	
Sprachvariante / Country code:	226	SRZ:	527794	Magenta			
Version:	1	Schriftgröße / Font size:	9 Pt	Yellow			
Datum / Date:	04.03.2019 Sid.	Zeilenabstand / Line spacing:	10 Pt	Black			
		Seite / Page:	4/4				

544663 - G,226,V80,TOUJEO 450E LI PSC,,2BD GEF

Plant: Frankfurt (Germany)
Packaging material code: 544663
Packaging material name: G,226,V80,TOUJEO 450E LI
PSC,,2BD GEF
Second packaging material code:
VISTAlink folder number: 4051390
VISTAlink PDF version: 2

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Reason	Signed by	Date
Market regulatory validation	Chand Miah (Bangladesh regulatory team)	05/03/2019 14:13:16
Plant final technical validation	Christian Albert (Frankfurt Devices Change Service Lead)	05/03/2019 14:37:25
Plant ready to print	Marina Cascella (Frankfurt Devices Change Service)	05/03/2019 14:45:32