



PERSONAL PROGRESS TRACKER



Questions?
Call 1-877-246-8910 to talk to a
Certified Diabetes Educator.



Personal Progress Tracker

Fill in your blood sugar numbers.

Checking your blood sugar and tracking your numbers is an important part of your diabetes care plan. Your health care provider may have recommended testing your fasting plasma glucose (FPG). FPG tests measure your blood sugar after you haven't eaten for 8 to 12 hours (or overnight). Most people check their FPG in the morning before they eat breakfast. Keep track of your FPG by filling in the information below every day.

Your numbers may change from day to day based on varying factors such as what you eat and how physically active you are. If you look at these numbers over time, you may start to see patterns in your blood sugar readings.

Here's how to use your Blood Sugar Diary

1. Write the date.
2. Fill in your daily blood sugar numbers as your health care provider advises.
3. Mark how you feel today.

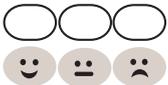
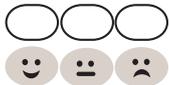
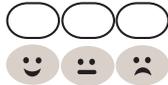
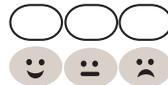
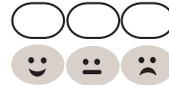
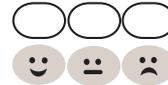
Monday	Tuesday	Wednesday	Thursday
DATE 12/15	DATE 12/16	DATE 12/17	DATE 12/18
90	95	85	81
How I feel today			
 	 	 	 

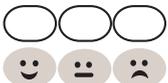
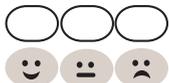
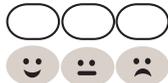
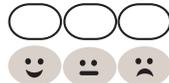
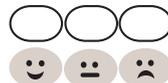
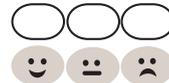
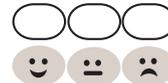
Daily blood sugar numbers in the chart are for example only. You and your health care provider have established what your personal goals should be.

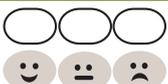
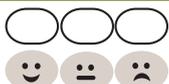
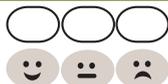
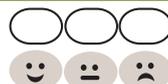
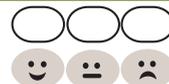
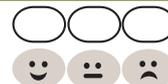
Please see additional Important Safety Information throughout. Please see Prescribing Information following page 7.

Fill in your blood sugar numbers and mark down how you are feeling. **Share this tracker with your health care provider to review your progress.** Your health care provider can use this information to make changes to your care plan to help you reach your goals.

You may not see a difference in your numbers right away. But stick with it! It may just take time.

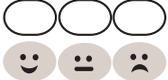
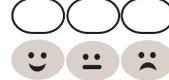
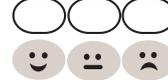
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Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
DATE	DATE	DATE	DATE	DATE	DATE	DATE
How I feel today	How I feel today	How I feel today				
						

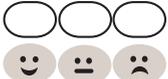
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Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
DATE	DATE	DATE	DATE	DATE	DATE	DATE
How I feel today	How I feel today	How I feel today				
						

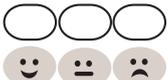
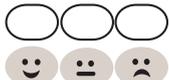
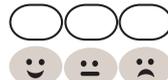
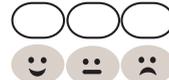
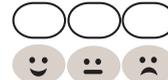
WEEK 3						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
DATE	DATE	DATE	DATE	DATE	DATE	DATE
How I feel today	How I feel today	How I feel today				
						

Fill in your blood sugar numbers and mark down how you are feeling. **Share this tracker with your health care provider to review your progress.** Your health care provider can use this information to make changes to your care plan to help you reach your goals.

Eating healthy is an important part of your diabetes treatment plan. Find healthy, easy-to-prepare recipes on Cornerstones4Care.com.

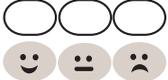
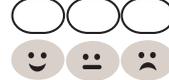
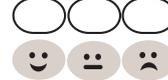
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Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
DATE	DATE	DATE	DATE	DATE	DATE	DATE
How I feel today	How I feel today	How I feel today				
						

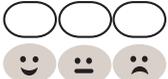
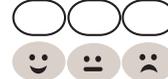
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Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
DATE	DATE	DATE	DATE	DATE	DATE	DATE
How I feel today	How I feel today	How I feel today				
						

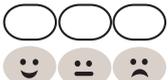
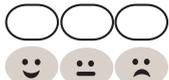
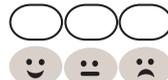
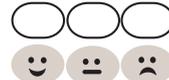
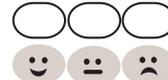
WEEK 6						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
DATE	DATE	DATE	DATE	DATE	DATE	DATE
How I feel today	How I feel today	How I feel today				
						

Fill in your blood sugar numbers and mark down how you are feeling. **Share this tracker with your health care provider to review your progress.** Your health care provider can use this information to make changes to your care plan to help you reach your goals.

Regular activity is a healthy habit to help you stay on track. Find tips for staying active at Cornerstones4Care.com.

WEEK 7						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
DATE	DATE	DATE	DATE	DATE	DATE	DATE
How I feel today	How I feel today	How I feel today				
						

WEEK 8						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
DATE	DATE	DATE	DATE	DATE	DATE	DATE
How I feel today	How I feel today	How I feel today				
						

WEEK 9						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
DATE	DATE	DATE	DATE	DATE	DATE	DATE
How I feel today	How I feel today	How I feel today				
						

What is Tresiba®?

- Prescription Tresiba® is a long-acting insulin used to control high blood sugar in adults with diabetes
- Tresiba® is not for people with diabetic ketoacidosis
- Tresiba® is available in 2 concentrations: 200 units/mL and 100 units/mL
- It is not known if Tresiba® is safe and effective in children under 18 years of age

Important Safety Information

Do not share your Tresiba® FlexTouch® 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.

Who should not take Tresiba®?

Do not take Tresiba® if you:

- are having an episode of low blood sugar
- are allergic to Tresiba® or any of the ingredients in Tresiba®

Before taking Tresiba®, tell your health care provider about all your medical conditions, including if you are:

- pregnant, planning to become pregnant, or are breastfeeding
- taking new prescription or over-the-counter medicines, vitamins, or herbal supplements

Talk to your health care provider about low blood sugar and how to manage it.

How should I take Tresiba®?

- **Read the Instructions for Use** and take Tresiba® exactly as your health care provider tells you to
- **Do not do any conversion of your dose. The dose counter always shows the selected dose in units**
- Know the type and strength of insulin you take. **Do not** change the type of insulin you take unless your health care provider tells you to
- If you miss or are delayed in taking your dose of Tresiba®:
 - Take your dose as soon as you remember, then continue with your regular dosing schedule
 - Make sure there are at least 8 hours between doses
- **Check your blood sugar levels.** Ask your health care provider what your blood sugar levels should be and when you should check them

- **Do not reuse or share your needles with other people.** You may give them a serious infection, or get a serious infection from them

- **Never** inject Tresiba® into a vein or muscle

- **Never** use a syringe to remove Tresiba® from the FlexTouch® pen

What should I avoid while taking Tresiba®?

- **Do not** drive or operate heavy machinery, until you know how Tresiba® affects you
- **Do not** drink alcohol or use prescription or over-the-counter medicines that contain alcohol

What are the possible side effects of Tresiba®?

Tresiba® may cause serious side effects that can be life-threatening, including:

- **Low blood sugar (hypoglycemia).** Signs and symptoms that may indicate low blood sugar include anxiety, irritability, mood changes, dizziness, sweating, confusion, and headache
- **Low potassium in your blood (hypokalemia)**
- **Heart failure** in some people if taken with thiazolidinediones (TZDs). This can happen even if you have never had heart failure or heart problems. If you already have heart failure, it may get worse while you take TZDs with Tresiba®. Tell your health care provider if you have any new or worse symptoms of heart failure including shortness of breath, tiredness, swelling of your ankles or feet, and sudden weight gain

Your insulin dose may need to change because of change in level of physical activity or exercise, increased stress, change in diet, weight gain or loss, or illness.

Common side effects may include reactions at the injection site, itching, rash, serious allergic reactions (whole body reactions), skin thickening or pits at the injection site (lipodystrophy), weight gain, and swelling of your hands and feet.

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, or confusion.

Please see Prescribing Information following page 7.

You've used this tracker for your first 9 weeks.
That's great! Now keep it going.

Go to **StartingTresiba.com** and download
your free Blood Sugar Tracker. You can use
it to continue tracking your progress.

novo nordisk
90

committed to diabetes for over 90 years

**Please see Important Safety Information throughout. Please
see Prescribing Information following page 7.**

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TRESIBA®
insulin degludec injection 200 Units/mL

TRESIBA[®]

insulin degludec injection

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

TRESIBA[®] (insulin degludec injection), for subcutaneous use
Initial U.S. Approval: 2015

INDICATIONS AND USAGE

TRESIBA[®] 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.

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, 2.4).
- Rotate injection sites to reduce the risk of lipodystrophy (2.1).
- Do not dilute or mix with any other insulin or solution (2.1).
- Administer subcutaneously once daily at any time of day (2.2).
- Do NOT perform dose conversion when using the TRESIBA[®] U-100 or U-200 FlexTouch[®] pens. The TRESIBA[®] U-100 and U-200 FlexTouch[®] pens dose window shows the number of insulin units to be delivered and NO conversion is needed (2.2).

DOSAGE FORMS AND STRENGTHS

TRESIBA[®] is available in the following package sizes:

- 100 units/mL (U-100): 3 mL FlexTouch[®] (3).
- 200 units/mL (U-200): 3 mL FlexTouch[®] (3).

CONTRAINDICATIONS

- During episodes of hypoglycemia (4).
- Hypersensitivity to TRESIBA[®] or one of its excipients (4).

WARNINGS AND PRECAUTIONS

- *Never share a TRESIBA[®] FlexTouch[®] pen between patients, even if the needle is changed (5.1).*
- *Hyper- or hypoglycemia with changes in insulin regimen:* Carry out under close medical supervision and increase frequency of blood glucose monitoring (5.2).
- *Hypoglycemia:* May be life-threatening. Increase monitoring with changes to: insulin dosage, co-administered glucose lowering medications, meal pattern, physical activity; and in patients with renal impairment or hepatic impairment or hypoglycemia unawareness (5.3, 5.4, 6.1).
- *Hypoglycemia due to medication errors:* Accidental mix-ups between insulin products can occur. Instruct patients to check insulin labels before injection. DO NOT transfer TRESIBA[®] into a syringe for administration as overdosage and severe hypoglycemia can result (5.4).
- *Hypersensitivity reactions:* Severe, life-threatening, generalized allergy, including anaphylaxis, can occur. Discontinue TRESIBA[®], monitor and treat if indicated (5.5).
- *Hypokalemia:* May be life-threatening. Monitor potassium levels in patients at risk for 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 TRESIBA[®] are:

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

To report SUSPECTED ADVERSE REACTIONS, contact Novo Nordisk at 1-800-727-6500 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).
- *Anti-Adrenergic 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: 09/2015

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FULL PRESCRIBING INFORMATION**1 INDICATIONS AND USAGE**

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

Limitations of Use

TRESIBA® is not recommended for the treatment of diabetic ketoacidosis.

2 DOSAGE AND ADMINISTRATION**2.1 Important Administration Instructions**

- Always check insulin labels before administration [see *Warnings and Precautions* (5.4)].
- Inspect visually for particulate matter and discoloration. Only use TRESIBA® if the solution appears clear and colorless.
- Train patients on proper use and injection technique before initiating TRESIBA®. Training reduces the risk of administration errors such as needle sticks and incomplete dosing.
- Inject TRESIBA® subcutaneously into the thigh, upper arm, or abdomen.
- Rotate injection sites within the same region from one injection to the next to reduce the risk of lipodystrophy [see *Adverse Reactions* (6.1)].
- DO NOT administer TRESIBA® intravenously, intramuscularly or in an insulin infusion pump.
- DO NOT dilute or mix TRESIBA® with any other insulin products or solutions.
- DO NOT transfer TRESIBA® from the TRESIBA® pen into a syringe for administration [see *Warnings and Precautions* (5.4)].

2.2 General Dosing Instructions

- Inject TRESIBA® subcutaneously once-daily at any time of day.
- Individualize and titrate the dose of TRESIBA® based on the patient's metabolic needs, blood glucose monitoring results, and glycemic control goal.
- The recommended days between dose increases is 3 to 4 days.
- Dose 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* (5.3)].
- Instruct patients who miss a dose of TRESIBA® to inject their daily dose during waking hours upon discovering the missed dose. Instruct patients to ensure that at least 8 hours have elapsed between consecutive TRESIBA® injections.
- DO NOT perform dose conversion when using the TRESIBA® U-100 or U-200 FlexTouch® pens. **The dose window for both the TRESIBA® U-100 and U-200 FlexTouch® pens shows the number of insulin units to be delivered and NO conversion is needed.**

2.3 Starting Dose in Insulin Naïve PatientsType 1 Diabetes Mellitus:

The recommended starting dose of TRESIBA® in insulin naïve 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 administered 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 naïve patients with type 1 diabetes.

Type 2 Diabetes Mellitus:

The recommended starting dose of TRESIBA® in insulin naïve patients with type 2 diabetes mellitus is 10 units once daily.

2.4 Starting Dose in Patients Already on Insulin TherapyType 1 and Type 2 Diabetes Mellitus:

Start TRESIBA® at the same unit dose as the total daily long or intermediate-acting insulin unit dose.

3 DOSAGE FORMS AND STRENGTHS

TRESIBA® is available as a clear, and colorless solution for injection in:

- 100 units/mL (U-100): 3 mL FlexTouch® disposable prefilled pen
- 200 units/mL (U-200): 3 mL FlexTouch® disposable prefilled pen

4 CONTRAINDICATIONS

TRESIBA® is contraindicated:

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

5 WARNINGS AND PRECAUTIONS**5.1 Never Share a TRESIBA® FlexTouch® Pen Between Patients**

TRESIBA® FlexTouch® disposable prefilled pens should never be shared between patients, even if the needle is changed. Sharing poses a risk for transmission of blood-borne pathogens.

5.2 Hyperglycemia or Hypoglycemia with Changes in Insulin Regimen

Changes in insulin, manufacturer, type, or method of administration may affect glycemic control and predispose to hypoglycemia or hyperglycemia. These changes should be made cautiously and only under medical supervision and the frequency of blood glucose monitoring should be increased. For patients with type 2 diabetes, adjustments in concomitant oral anti-diabetic treatment may be needed. When converting from other insulin therapies to TRESIBA® follow dosing recommendations [see *Dosage and Administration* (2.4)].

5.3 Hypoglycemia

Hypoglycemia is the most common adverse reaction of insulin, including TRESIBA® [see *Adverse Reactions* (6.1)]. 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). TRESIBA®, or any insulin, should not be used during episodes of hypoglycemia [see *Contraindications* (4)].

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 risk of hypoglycemia generally increases with intensity of glycemic control. The risk of hypoglycemia after an injection is related to the duration of action of the insulin [see *Clinical Pharmacology* (12.2)] and, in general, is highest when the glucose lowering effect of the insulin is maximal. As with all insulin preparations, the glucose lowering effect time course of TRESIBA® may vary among 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.

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 co-administered 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.

5.4 Hypoglycemia Due to Medication Errors

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

Do not transfer TRESIBA® from the TRESIBA® pen to a syringe. The markings on the insulin syringe will not measure the dose correctly and can result in overdosage and severe hypoglycemia [see *Dosage and Administration* (2.1) 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 TRESIBA®. If hypersensitivity reactions occur, discontinue TRESIBA®; treat per standard of care and monitor until symptoms and signs resolve. TRESIBA® is contraindicated in patients who have had hypersensitivity reactions to insulin degludec or one of the excipients [see *Contraindications* (4)].

5.6 Hypokalemia

All insulin products, including TRESIBA®, 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 Congestive Heart Failure with Concomitant Use of a PPAR Gamma Agonist

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 congestive heart failure. Patients treated with insulin, including TRESIBA® and a PPAR-gamma agonist should be observed for signs and symptoms of congestive heart failure. If congestive 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 also discussed elsewhere:

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

6.1 Clinical Trial 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 observed in practice.

The safety of TRESIBA® was evaluated in nine treat to target trials of 6-12 months duration, conducted in subjects with type 1 diabetes or type 2 diabetes [see *Clinical Studies* (14)].

The data in Table 1 reflect the exposure of 1102 patients with type 1 diabetes to TRESIBA® with a mean exposure duration to TRESIBA® of 34 weeks. The mean age was 43 years and 1% were older than 75 years. Fifty-seven percent were male, 81% were White, 2% were Black or African American and 4% were Hispanic. The mean body mass index (BMI) was 26 kg/m². The mean duration of diabetes was 18 years and the mean HbA_{1c} at baseline was 7.8%. A history of neuropathy, ophthalmopathy, nephropathy and cardiovascular disease at baseline was reported in 11%, 16%, 7% and 0.5% respectively. The mean eGFR at baseline was 87 mL/min/1.73 m² and 7% of the patients had an eGFR less than 60 mL/min/1.73 m².

The data in Table 2 reflect the exposure of 2713 patients with type 2 diabetes to TRESIBA® with a mean exposure duration to TRESIBA® of 36 weeks. The mean age was 58 years and 3% were older than 75 years. Fifty-eight percent were male, 71% were White, 7% were Black or African American and 13% were Hispanic. The mean BMI was 30 kg/m². The mean duration of diabetes was 11 years and the mean HbA_{1c} at baseline was 8.3%. A history of neuropathy, ophthalmopathy, nephropathy and cardiovascular disease at baseline was reported for 14%, 10%, 6% and 0.6% of participants respectively. At baseline, the mean eGFR was 83 mL/min/1.73 m² and 9% had an eGFR less than 60 mL/min/1.73 m².

Common adverse reactions (excluding hypoglycemia) occurring in TRESIBA® 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. Common adverse reactions were defined as reactions occurring

in ≥5% of the population studied. Hypoglycemia is not shown in these tables but discussed in a dedicated subsection below.

Table 1: Adverse Reactions Occurring in ≥5% of TRESIBA®-Treated Patients with Type 1 Diabetes Mellitus

Adverse Reaction	TRESIBA® (n=1102)
Nasopharyngitis	23.9 %
Upper respiratory tract infection	11.9 %
Headache	11.8 %
Sinusitis	5.1 %
Gastroenteritis	5.1 %

Table 2: Adverse Reactions Occurring in ≥5% of TRESIBA®-Treated Patients with Type 2 Diabetes Mellitus

Adverse Reaction	TRESIBA® (n=2713)
Nasopharyngitis	12.9 %
Headache	8.8 %
Upper respiratory tract infection	8.4 %
Diarrhea	6.3 %

Hypoglycemia

Hypoglycemia is the most commonly observed adverse reaction in patients using insulin including TRESIBA® [see Warnings and Precautions (5.3)]. The rates of reported hypoglycemia depend on the definition of hypoglycemia used, diabetes type, insulin dose, intensity of glucose control, background therapies, and other intrinsic and extrinsic patient factors. For these reasons, comparing rates of hypoglycemia in clinical trials for TRESIBA® with the incidence of hypoglycemia for other products may be misleading and also, may not be representative of hypoglycemia rates that will occur in clinical practice.

The percent of participants randomized to TRESIBA® who experienced at least one episode of hypoglycemia in adult clinical trials [see Clinical Studies (14)] of patients with type 1 and type 2 diabetes respectively are shown in Table 3 and 4. No clinically important differences in risk of hypoglycemia between TRESIBA® and comparators was observed in clinical trials.

Severe hypoglycemia was defined as an episode requiring assistance of another person to actively administer carbohydrate, glucagon, or other resuscitative actions. A Novo Nordisk hypoglycemia episode was defined as a severe hypoglycemia episode or an episode where a laboratory or a self-measured glucose calibrated to plasma was less than 56 mg/dL or where a whole blood glucose was less than 50 mg/dL (i.e., with or without the presence of hypoglycemic symptoms).

Table 3: Percent (%) of Type 1 Diabetes Patients Experiencing at Least One Episode of Severe Hypoglycemia or Novo Nordisk Hypoglycemia[§] on TRESIBA® in Adult Clinical Trials

	Study A + insulin aspart 52 weeks	Study B + insulin aspart 26 weeks	Study C + insulin aspart 26 weeks	
	TRESIBA® (N=472)	TRESIBA® (N=301)	TRESIBA® at the same time each day (N=165)	TRESIBA® at alternating times (N=164)
Severe hypoglycemia				
Percent of patients	12.3%	10.6%	12.7%	10.4%
Novo Nordisk hypoglycemia[§]				
Percent of patients	95.6%	93.0%	99.4%	93.9%

[§]Novo Nordisk hypoglycemia: a severe hypoglycemia episode or an episode where a laboratory or a self-measured glucose calibrated to plasma was less than 56 mg/dL or where a whole blood glucose was less than 50 mg/dL (i.e., with or without the presence of hypoglycemic symptoms).

Table 4: Percent (%) of Patients with Type 2 Diabetes Experiencing at Least One Episode of Severe Hypoglycemia or Novo Nordisk Hypoglycemia[§] on TRESIBA® in Adult Clinical Trials

	Study D + 1-2 OADs* insulin naïve 52 weeks	Study E + 1-2 OAD*s insulin naïve 26 weeks	Study F ± 1-3 OADs* insulin naïve 26 weeks	Study G T2DM ± 0-3 OADs* 26 weeks		Study H T2DM ± 0-2 OADs* + insulin aspart 26 weeks	Study I T2DM ± 1-2 OADs* insulin naïve 26 weeks
	TRESIBA® (N=766)	TRESIBA® (N=228)	TRESIBA® (N=284)	TRESIBA® (N=226)	TRESIBA® (alternating time) (N=230)	TRESIBA® (N=753)	TRESIBA® (N=226)
Severe hypoglycemia							
Percent of patients	0.3%	0	0	0.9%	0.4%	4.5%	0.4%
Novo Nordisk hypoglycemia[§]							
Percent of patients	46.5%	28.5%	50%	43.8%	50.9%	80.9%	42.5%

*OAD: oral antidiabetic agent, [§]Novo Nordisk hypoglycemia: a severe hypoglycemia episode or an episode where a laboratory or a self-measured glucose calibrated to plasma was less than 56 mg/dL or where a whole blood glucose was less than 50 mg/dL (i.e., with or without the presence of hypoglycemic symptoms).

Allergic Reactions

Severe, life-threatening, generalized allergy, including anaphylaxis, generalized skin reactions, angioedema, bronchospasm, hypotension, and shock may occur with any insulin, including TRESIBA® and may be life threatening [see Warnings and Precautions (5.5)]. Hypersensitivity (manifested with swelling of tongue and lips, diarrhea, nausea, tiredness, and itching) and urticaria were reported in 0.9% of patients treated with TRESIBA®.

Lipodystrophy

Long-term use of insulin, including TRESIBA®, can cause lipodystrophy at the site of repeated insulin injections. Lipodystrophy includes lipohypertrophy (thickening of adipose tissue) and lipoatrophy (thinning of adipose tissue) and may affect insulin absorption. Rotate insulin injection sites within the same region to reduce the risk of lipodystrophy [see Dosage and Administration (2.1)]. In the clinical program, lipodystrophy, lipohypertrophy, or lipoatrophy was reported in 0.3% of patients treated with TRESIBA®.

Injection Site Reactions

Patients taking TRESIBA® may experience injection site reactions, including injection site hematoma, pain, hemorrhage, erythema, nodules, swelling, discoloration, pruritus, warmth, and injection site mass. In the clinical program, injection site reactions occurred in 3.8% of patients treated with TRESIBA®.

Weight Gain

Weight gain can occur with insulin therapy, including TRESIBA®, and has been attributed to the anabolic effects of insulin. In the clinical program after 52 weeks of treatment, patients with type 1 diabetes treated with TRESIBA® gained an average of 1.8 kg and patients with type 2 diabetes treated with TRESIBA® gained an average of 3.0 kg.

Peripheral Edema

Insulin, including TRESIBA®, may cause sodium retention and edema. In the clinical program, peripheral edema occurred in 0.9% of patients with type 1 diabetes mellitus and 3.0% of patients with type 2 diabetes mellitus treated with TRESIBA®.

6.2 Immunogenicity

As with all therapeutic proteins, insulin administration may cause anti-insulin antibodies to form. 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 TRESIBA® with the incidence of antibodies in other studies or to other products, may be misleading.

In studies of type 1 diabetes patients, 95.9% of patients who received TRESIBA® once daily were positive for anti-insulin antibodies (AIA) at least once during the studies, including 89.7% that were positive at baseline. In studies of type 2 diabetes patients, 31.5% of patients who received TRESIBA® once daily were positive for AIA at least once during the studies, including 14.5% that were positive at baseline. The antibody incidence rates for type 2 diabetes may be underreported due to potential assay interference by endogenous insulin in samples in these patients. The presence of antibodies that affect clinical efficacy may necessitate dose adjustments to correct for tendencies toward hyper or hypoglycemia.

The incidence of anti-insulin degludec antibodies has not been established.

7 DRUG INTERACTIONS

Table 5 includes clinically significant drug interactions with TRESIBA®.

Table 5: Clinically Significant Drug Interactions with TRESIBA®

Drugs That May Increase the Risk of Hypoglycemia	
Drugs:	Antidiabetic agents, ACE inhibitors, angiotensin II receptor blocking agents, disopyramide, fibrates, fluoxetine, monoamine oxidase inhibitors, pentoxifylline, pramlintide, propoxyphene, salicylates, somatostatin analogs (e.g., octreotide), and sulfonamide antibiotics, GLP-1 receptor agonists, DDP-4 inhibitors, SGLT-2 inhibitors.
Intervention:	Dose reductions and increased frequency of glucose monitoring may be required when TRESIBA® is co-administered with these drugs.
Drugs That May Decrease the Blood Glucose Lowering Effect of TRESIBA®	
Drugs:	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.
Intervention:	Dose increases and increased frequency of glucose monitoring may be required when TRESIBA® is co-administered with these drugs.
Drugs That May Increase or Decrease the Blood Glucose Lowering Effect of TRESIBA®	
Drugs:	Alcohol, beta-blockers, clonidine, and lithium salts. Pentamidine may cause hypoglycemia, which may sometimes be followed by hyperglycemia.
Intervention:	Dose adjustment and increased frequency of glucose monitoring may be required when TRESIBA® is co-administered with these drugs.
Drugs That May Blunt Signs and Symptoms of Hypoglycemia	
Drugs:	Beta-blockers, clonidine, guanethidine, and reserpine
Intervention:	Increased frequency of glucose monitoring may be required when TRESIBA® is co-administered with these drugs.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category C

There are no well-controlled clinical studies of the use of insulin degludec in pregnant women. Patients should be advised to discuss with their health care provider if they intend to or if they become pregnant. Because animal reproduction studies are not always predictive of human response, insulin degludec should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. It is essential for patients with diabetes or a history of gestational diabetes to maintain good metabolic control before conception and throughout pregnancy. Insulin requirements may decrease during the first trimester, generally increase during the second and third trimesters, and rapidly decline after delivery. Careful monitoring of glucose control is essential in these patients.

Subcutaneous reproduction and teratology studies have been performed with insulin degludec and human insulin (NPH) as a comparator in rats and rabbits. In these studies, insulin was given to female rats before mating throughout pregnancy until weaning, and to rabbits during organogenesis. The effect of insulin degludec was consistent with those observed with human insulin as both caused pre- and post-implantation losses and visceral/skeletal abnormalities in rats at an insulin degludec dose of 21 U/kg/day (approximately 5 times the human exposure (AUC) at a human subcutaneous dose of 0.75 U/kg/day) and in rabbits at a dose of 3.3 U/kg/day (approximately 10 times the human exposure (AUC) at a human subcutaneous dose of 0.75 U/kg/day). The effects are probably secondary to maternal hypoglycemia.

8.3 Nursing Mothers

It is unknown whether insulin degludec is excreted in human milk. Because many drugs, including human insulin, are excreted in human milk, caution should be exercised when insulin degludec is administered to a nursing mother. Women with diabetes who are lactating may require adjustments in insulin dose, meal plan, or both.

In rats, insulin degludec was secreted in milk and the concentration in milk was lower than in plasma.

8.4 Pediatric Use

The safety and efficacy of TRESIBA® in children and adolescents under the age of 18 have not been established.

8.5 Geriatric Use

In controlled clinical studies [see *Clinical Studies (14)*] a total of 77 (7%) of the 1102 TRESIBA®-treated patients with type 1 diabetes were 65 years or older and 9 (1%) were 75 years or older. A total of 670 (25%) of the 2713 TRESIBA®-treated patients with type 2 diabetes were 65 years or older and 80 (3%) were 75 years or older. Differences in safety or effectiveness were not suggested in subgroup analyses comparing subjects older than 65 years to younger subjects.

Nevertheless, greater caution should be exercised when TRESIBA® is administered to geriatric patients since greater sensitivity of some older individuals to the effects of TRESIBA® cannot be ruled out. The initial dosing, dose increments, and maintenance dosage should be conservative to avoid hypoglycemia. Hypoglycemia may be more difficult to recognize in the elderly.

8.6 Renal Impairment

In clinical studies [see *Clinical Studies (14)*] a total of 75 (7%) of the 1102 TRESIBA®-treated patients with type 1 diabetes had an eGFR less than 60 mL/min/1.73 m² and 1 (0.1%) had an eGFR less than 30 mL/min/1.73 m². A total of 250 (9%) of the 2713 TRESIBA®-treated patients with type 2 diabetes had an eGFR less than 60 mL/min/1.73 m² and no subjects had an eGFR less than 30 mL/min/1.73 m².

No clinically relevant difference in the pharmacokinetics of TRESIBA® was identified in a study comparing healthy subjects and subjects with renal impairment including subjects with end stage renal disease [see *Clinical Pharmacology (12.3)*]. However, as with all insulin products, glucose monitoring should be intensified and the TRESIBA® dosage adjusted on an individual basis in patients with renal impairment.

8.7 Hepatic Impairment

No difference in the pharmacokinetics of TRESIBA® was identified in a study comparing healthy subjects and subjects with hepatic impairment (mild, moderate, and severe hepatic impairment) [see *Clinical Pharmacology (12.3)*]. However, as with all insulin products, glucose monitoring should be intensified and the TRESIBA® dosage adjusted on an individual basis in patients with hepatic impairment.

10 OVERDOSAGE

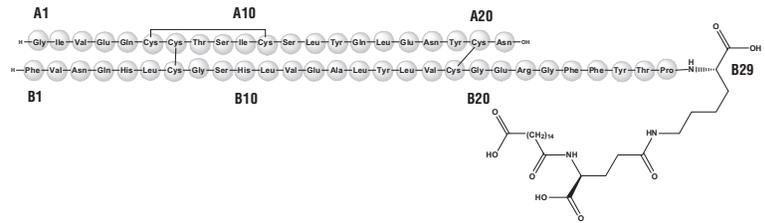
An excess of insulin relative to food intake, energy expenditure, or both may lead to severe and sometimes prolonged and life-threatening hypoglycemia and hypokalemia [see *Warnings and Precautions (5.3, 5.6)*]. Mild episodes of hypoglycemia usually can be treated with oral glucose. Adjustments in drug dosage, meal patterns, or exercise 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. After apparent clinical recovery from hypoglycemia, continued observation and additional carbohydrate intake may be necessary to avoid recurrence of hypoglycemia. Hypokalemia must be corrected appropriately.

11 DESCRIPTION

TRESIBA® (insulin degludec injection) is a long-acting basal human insulin analog for subcutaneous injection. Insulin degludec is produced by a process that includes expression of recombinant DNA in *Saccharomyces cerevisiae* followed by chemical modification.

Insulin degludec differs from human insulin in that the amino acid threonine in position B30 has been omitted and a side-chain consisting of glutamic acid and a C16 fatty acid has been attached (chemical name: LysB29(Nε-hexadecandioyl)-γ-Glu) des(B30) human insulin). Insulin degludec has a molecular formula of C₂₇₄H₄₁₁N₆₅O₈₁S₆ and a molecular weight of 6103.97. It has the following structure:

Figure 1: Structural Formula of TRESIBA®



TRESIBA® is a sterile, aqueous, clear, and colorless solution that contains insulin degludec 100 units/mL (U-100) or 200 units/mL (U-200).

Inactive ingredients for the 100 units/mL are: glycerol 19.6 mg/mL, phenol 1.50 mg/mL, metacresol 1.72 mg/mL, zinc 32.7 mcg/mL and water for injection.

Inactive ingredients for the 200 units/mL are: glycerol 19.6 mg/mL, phenol 1.50 mg/mL, metacresol 1.72 mg/mL, zinc 71.9 mcg/mL and water for injection.

TRESIBA® has a pH of approximately 7.6. Hydrochloric acid or sodium hydroxide may be added to adjust pH.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The primary activity of insulin, including TRESIBA®, 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 also inhibits lipolysis and proteolysis, and enhances protein synthesis. TRESIBA® forms multi-hexamers when injected into the subcutaneous tissue resulting in a subcutaneous insulin degludec depot. The protracted time action profile of TRESIBA® is predominantly due to delayed absorption of insulin degludec from the subcutaneous tissue to the systemic circulation and to a lesser extent due to binding of insulin-degludec to circulating albumin.

12.2 Pharmacodynamics

The glucose-lowering effect of TRESIBA® after 8 days of once-daily dosing was measured in a euglycemic glucose clamp study enrolling 21 patients with type 1 diabetes. Figure 2 shows the pharmacodynamic effect of TRESIBA® over time following 8 once-daily subcutaneous injections of 0.4 U/kg of TRESIBA® in patients with type 1 diabetes.

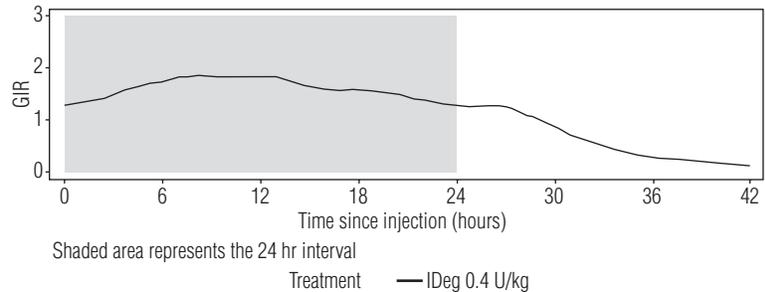


Figure 2: Mean GIR profile for 0.4 U/kg dose of TRESIBA® (steady state) in patients with Type 1 diabetes mellitus

The mean maximum glucose lowering effect (GIR_{max}) of a 0.4 U/kg dose of TRESIBA® was 2.0 mg/kg/min, which was observed at a median of 12 hours post-dose. The glucose lowering effect of TRESIBA® lasted at least 42 hours after the last of 8 once-daily injections.

In patients with type 1 diabetes mellitus, the steady-state, within subjects, day-to-day variability in total glucose lowering effect was 20% with TRESIBA® (within-subject coefficient of variation for AUC_{GIR,τ,ss}).

The total glucose-lowering effect of TRESIBA® over 24 hours measured in a euglycemic clamp study after 8 days of once-daily administration in patients with type 1 diabetes increases approximately in proportion to the dose for doses between 0.4 U/kg to 0.8 U/kg.

The total glucose-lowering effect of 0.4 U/kg of TRESIBA® U-100 and 0.4 U/kg of TRESIBA® U-200, administered at the same dose, and assessed over 24 hours in a euglycemic clamp study after 8 days of once-daily injection was comparable.

12.3 Pharmacokinetics

Absorption

In patients with type 1 diabetes, after 8 days of once daily subcutaneous dosing with 0.4 U/kg of TRESIBA®, maximum degludec concentrations of 4472 pmol/L were attained at a median of 9 hours (t_{max}). After the first dose of TRESIBA®, median onset of appearance was around one hour.

Total insulin degludec concentration (i.e., exposure) increased in a dose proportional manner after subcutaneous administration of 0.4 U/kg to 0.8 U/kg TRESIBA®. Total and maximum insulin degludec exposure at steady state are comparable between TRESIBA® U-100 and TRESIBA® U-200 when each is administered at the same U/kg dose.

Insulin degludec concentration reach steady state levels after 3-4 days of TRESIBA® administration [see *Dosage and Administration (2.2)*].

Distribution

The affinity of insulin degludec to serum albumin corresponds to a plasma protein binding of >99% in human plasma. The results of the *in vitro* protein binding studies demonstrate that there is no clinically relevant interaction between insulin degludec and other protein bound drugs.

Elimination

The half-life after subcutaneous administration is determined primarily by the rate of absorption from the subcutaneous tissue. On average, the half-life at steady state is approximately 25 hours

independent of dose. Degradation of TRESIBA® is similar to that of insulin human; all metabolites formed are inactive. The mean apparent clearance of insulin degludec is 0.03 L/kg (2.1 L/h in 70 kg individual) after single subcutaneous dose of 0.4 U/kg.

Specific Populations

As with other insulin preparations, TRESIBA® should always be titrated according to individual requirements.

Geriatrics-

Pharmacokinetic and pharmacodynamic response of TRESIBA® in 13 younger adult (18–35 years) and 14 geriatric (≥65 years) subjects with type 1 diabetes following two 6 day periods of once-daily subcutaneous dosing with 0.4 U/kg dose of TRESIBA® or insulin glargine. On average, the pharmacokinetic and pharmacodynamic properties of TRESIBA® at steady-state were similar in younger adult and geriatric subjects, albeit with greater between subject variability among the geriatric subjects.

Gender-

The effect of gender on the pharmacokinetics of TRESIBA® was examined in an across-trial analysis of the pharmacokinetic and pharmacodynamic studies. Overall, there were no clinically relevant differences in the pharmacokinetic properties of insulin degludec between female and male subjects.

Obesity-

The effect of BMI on the pharmacokinetics of TRESIBA® was explored in a cross-trial analysis of pharmacokinetic and pharmacodynamic studies. For subjects with type 1 diabetes, no relationship between exposure of TRESIBA® and BMI was observed. For subjects with type 1 and type 2 diabetes a trend for decrease in glucose-lowering effect of TRESIBA® with increasing BMI was observed.

Race and Ethnicity-

TRESIBA® has been studied in a pharmacokinetic and pharmacodynamic study in Black or African American subjects not of Hispanic or Latino origin (n=18), White subjects of Hispanic or Latino origin (n=22) and White subjects not of Hispanic or Latino origin (n=23) with type 2 diabetes mellitus. There were no statistically significant differences between the racial and ethnic groups investigated.

Pregnancy-

The effect of pregnancy on the pharmacokinetics and pharmacodynamics of TRESIBA® has not been studied [see Use in Specific Populations (8.1)].

Renal Impairment-

TRESIBA® pharmacokinetics was studied in 32 subjects (n=4-8/group) with normal or impaired renal function/end-stage renal disease following administration of a single subcutaneous dose (0.4 U/kg) of TRESIBA®. Renal function was defined using creatinine clearance (Cl_{cr}) as follows: ≥90 mL/min (normal), 60-89 mL/min (mild), 30-59 mL/min (moderate) and <30 mL/min (severe). Subjects requiring dialysis were classified as having end-stage renal disease (ESRD). Total (AUC_{0-120h,SD}) and peak exposure of TRESIBA® were on average about 10-25% and 13-27% higher, respectively in subjects with mild to severe renal impairment except subjects with ESRD who showed similar exposure as compared to subjects with normal renal function. No systematic trend was noted for this increase in exposure across different renal impairment subgroups. Hemodialysis did not affect clearance of TRESIBA® (CL/F_{10deg,SD}) in subjects with ESRD [see Use in Specific Populations (8.6)].

Hepatic Impairment-

TRESIBA® has been studied in a pharmacokinetic study in 24 subjects (n=6/group) with normal or impaired hepatic function (mild, moderate, and severe hepatic impairment) following administration of a single subcutaneous dose (0.4 U/kg) of TRESIBA®. Hepatic function was defined using Child-Pugh Scores ranging from 5 (mild hepatic impairment) to 15 (severe hepatic impairment). No differences in the pharmacokinetics of TRESIBA® were identified between healthy subjects and subjects with hepatic impairment [see Use in Specific Populations (8.7)].

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Standard 2-year carcinogenicity studies in animals have not been performed to evaluate the carcinogenic potential of insulin degludec. In a 52-week study including human insulin (NPH insulin) as comparator (6.7 U/kg/day), Sprague-Dawley rats were dosed subcutaneously with insulin degludec at 3.3, 6.7, and 10 U/kg/day, resulting in 5 times the human exposure (AUC) when compared to a human subcutaneous dose of 0.75 U/kg/day. Human insulin was dosed at 6.7 U/kg/day. No treatment-related increases in incidences of hyperplasia, benign or malignant tumors were recorded in female mammary glands from rats dosed with insulin degludec and no treatment related changes in the female mammary gland cell proliferation were found using BrdU incorporation. Further, no treatment related changes in the occurrence of hyperplastic or neoplastic lesions were seen in other tissues in animals dosed with insulin degludec when compared to vehicle or human insulin.

Genotoxicity testing of insulin degludec was not performed.

In a combined fertility and embryo-fetal study in male and female rats, treatment with insulin degludec up to 21 U/kg/day (approximately 5 times the human subcutaneous dose of 0.75 U/kg/day, based on U/body surface area) prior to mating and in female rats during gestation had no effect on mating performance and fertility.

14 CLINICAL STUDIES

The efficacy of TRESIBA® administered once-daily either at the same time each day or at any time each day in patients with type 1 diabetes and used in combination with a mealtime insulin was evaluated in three randomized, open-label, treat-to-target, active-controlled, trials. The efficacy of TRESIBA® administered once-daily either at the same time each day or at any time each day in patients with type 2 diabetes and used in combination with a mealtime insulin or in combination with common oral anti-diabetic agents was evaluated in six randomized, open-label, treat-to-target active-controlled trials.

Patients treated with TRESIBA® achieved levels of glycemic control similar to those achieved with LANTUS (insulin glargine 100 U/mL) and LEVEMIR® (insulin detemir) and achieved statistically significant improvements compared to sitagliptin.

14.1 Type 1 Diabetes – Adult

TRESIBA® Administered at the Same Time each Day in Combination with a Rapid-Acting Insulin Analog at Mealtimes

Study A

The efficacy of TRESIBA® was evaluated in a 52-week randomized, open-label, multicenter trial in 629 patients with type 1 diabetes mellitus (Study A). Patients were randomized to TRESIBA® once-daily with the evening meal or insulin glargine U-100 once-daily according to the approved labeling. Insulin aspart was administered before each meal in both treatment arms.

The mean age of the trial population was 43 years and mean duration of diabetes was 18.9 years. 58.5% were male. 93% were White, 1.9% Black or African American. 5.1% were Hispanic. 8.6% of patients had eGFR<60 mL/min/1.73m². The mean BMI was approximately 26.3 kg/m².

At week 52, the difference in HbA_{1c} reduction from baseline between TRESIBA® and insulin glargine U-100 was -0.01% with a 95% confidence interval of [-0.14%; 0.11%] and met the pre-specified non-inferiority margin (0.4%). See Table 6, Study A.

Study B

The efficacy of TRESIBA® was evaluated in a 26-week randomized, open-label, multicenter trial in 455 patients with type 1 diabetes mellitus (Study B). Patients were randomized to TRESIBA® or insulin detemir once-daily in the evening. After 8 weeks, insulin detemir could be dosed twice-daily. 67.1% used insulin detemir once daily at end of trial. 32.9% used insulin detemir twice daily at end of trial. Insulin aspart was administered before each meal in both treatment arms.

The mean age of the trial population was 41.3 years and mean duration of diabetes was 13.9 years. 51.9% were male. 44.6% were White, 0.4% Black or African American. 4.4% were Hispanic. 4.4% of patients had eGFR<60 mL/min/1.73m². The mean BMI was approximately 23.9 kg/m².

At week 26, the difference in HbA_{1c} reduction from baseline between TRESIBA® and insulin detemir was -0.09% with a 95% confidence interval of [-0.23%; 0.05%] and met the pre-specified non-inferiority margin (0.4%). See Table 6, Study B.

TABLE 6: Results at Week 52 in a Trial Comparing TRESIBA® to Insulin glargine U-100 (Study A) and Week 26 in a Trial Comparing TRESIBA® to Insulin detemir (Study B) in Patients with Type 1 Diabetes Mellitus receiving Insulin aspart at Mealtimes

	Study A		Study B	
	TRESIBA® + Insulin aspart	Insulin glargine U-100 + Insulin aspart	TRESIBA® + Insulin aspart	Insulin detemir + Insulin aspart
N	472	157	302	153
HbA_{1c} (%)				
Baseline	7.7	7.7	8.0	8.0
End of trial	7.3	7.3	7.3	7.3
Adjusted mean change from baseline*	-0.36	-0.34	-0.71	-0.61
Estimated treatment difference [95%CI] TRESIBA® - Insulin glargine U-100	-0.01 [-0.14;0.11]		-0.09 [-0.23;0.05]	
Proportion Achieving HbA_{1c} < 7% at Trial End	39.8%	42.7%	41.1%	37.3%
FPG (mg/dL)				
Baseline	165	174	178	171
End of trial	141	149	131	161
Adjusted mean change from baseline	-27.6	-21.6	-43.3	-13.5
Daily basal insulin dose				
Baseline mean	28 U	26 U	22 U	22 U
Mean dose at end of study	29 U ¹	31 U ¹	25 U ²	29 U ²
Daily bolus insulin dose				
Baseline mean	29 U	29 U	28 U	31 U
Mean dose at end of study	32 U ¹	35 U ¹	36 U ²	41 U ²

¹At Week 52

²At Week 26

*The change from baseline to end of treatment visit in HbA_{1c} was analysed using ANOVA with treatment, region, sex, and anti-diabetic treatment at screening as fixed effects, and age and baseline HbA_{1c} as covariates.

In Study A, there were 14.8% of subjects in the TRESIBA® and 11.5% Insulin glargine arms for whom data was missing at the time of the HbA_{1c} measurement.

In Study B, there were 6.3% of subjects in the TRESIBA® and 9.8% Insulin detemir arms for whom data was missing at the time of the HbA_{1c} measurement.

Study C: TRESIBA® Administered at the Same Time each Day or at Any Time each Day in Combination with a Rapid-Acting Insulin Analog at Mealtimes

The efficacy of TRESIBA® was evaluated in a 26-week randomized, open-label, multicenter trial in 493 patients with type 1 diabetes mellitus. Patients were randomized to TRESIBA® injected once-daily at the same time each day (with the main evening meal), to TRESIBA® injected once daily at any time each day or to insulin glargine U-100 injected once-daily according to the approved labeling. The any time each day TRESIBA® arm was designed to simulate a worst-case scenario injection schedule of alternating short and long, once daily, dosing intervals (i.e., alternating intervals of 8 to 40 hours between doses). TRESIBA® in this arm was dosed in the morning on Monday, Wednesday, and Friday and in the evening on Tuesday, Thursday, Saturday, and Sunday. Insulin aspart was administered before each meal in both treatment arms.

The mean age of the trial population was 43.7 years and mean duration of diabetes was 18.5 years. 57.6% were male. 97.6% were White, 1.8% Black or African American. 3.4% were Hispanic. 7.4% of patients had eGFR<60 mL/min/1.73m². The mean BMI was approximately 26.7 kg/m².

At week 26, the difference in HbA_{1c} reduction from baseline between TRESIBA® administered at alternating times and insulin glargine U-100 was 0.17% with a 95% confidence interval of [0.04%; 0.30%] and met the pre-specified non-inferiority margin (0.4%). See Table 7.

Table 7: Results at Week 26 in a Trial Comparing TRESIBA® Dosed Once Daily at the Same and at Alternating Times Each Day to Insulin glargine U-100 in Patients with Type 1 Diabetes Mellitus receiving Insulin aspart at mealtimes

	TRESIBA® at the same time each day + Insulin aspart	TRESIBA® at alternating times + Insulin aspart	Insulin glargine U-100 + Insulin aspart
N	165	164	164
HbA_{1c} (%)			
Baseline	7.7	7.7	7.7
End of trial	7.3	7.3	7.1
Adjusted mean change from baseline*	-0.41	-0.40	-0.57
Estimated treatment difference [95%CI] TRESIBA® alternating - Insulin glargine U-100	0.17 [0.04; 0.30]		
Proportion Achieving HbA_{1c} < 7% at Trial End	37.0%	37.2%	40.9%
FPG (mg/dL)			
Baseline	179	173	175
End of trial	133	149	151
Adjusted mean change from baseline	-41.8	-24.7	-23.9
Daily basal insulin dose			
Baseline mean	28 U	29 U	29 U
Mean dose at end of study	32 U	36 U	35 U
Daily bolus insulin dose			
Baseline mean	29 U	33 U	32 U
Mean dose at end of study	27 U	30 U	35 U

*The change from baseline to end of treatment visit in HbA_{1c} was analysed using ANOVA with treatment, region, sex, and anti-diabetic treatment at screening as fixed effects, and age and baseline HbA_{1c} as covariates. In Study C, there were 15.8% and 15.9% of subjects in the TRESIBA® (same time and alternating times respectively) and 7.9% Insulin glargine arms for whom data was missing at the time of the HbA_{1c} measurement.

14.2 Type 2 Diabetes – Adult

Study D: TRESIBA® Administered at the Same Time each Day as an Add-on to Metformin with or without a DPP-4 inhibitor in Insulin Naïve Patients

The efficacy of TRESIBA® was evaluated in a 52-week randomized, open-label, multicenter trial that enrolled 1030 insulin naïve patients with type 2 diabetes mellitus inadequately controlled on one or more oral antidiabetic agents (OADs). Patients were randomized to TRESIBA® once-daily with the evening meal or insulin glargine U-100 once-daily according to the approved labeling. Metformin alone (82.5%) or in combination with a DPP-4 inhibitor (17.5%) was used as background therapy in both treatment arms.

The mean age of the trial population was 59.1 years and mean duration of diabetes was 9.2 years. 61.9% were male. 88.4% were White, 7.1% Black or African American. 17.2% were Hispanic. 9.6% of patients had eGFR < 60 mL/min/1.73m². The mean BMI was approximately 31.1 kg/m².

At week 52, the difference in HbA_{1c} reduction from baseline between TRESIBA® and insulin glargine U-100 was 0.09% with a 95% confidence interval of [-0.04%; 0.22%] and met the pre-specified non-inferiority margin (0.4%); See Table 8.

Table 8: Results at Week 52 in a Trial Comparing TRESIBA® to Insulin glargine U-100 in Patients with Type 2 Diabetes Mellitus on OAD(s)*

	TRESIBA® + OAD(s)*	Insulin glargine U-100 + OAD(s)*
N	773	257
HbA_{1c} (%)		
Baseline	8.2	8.2
End of trial	7.1	7.0
Adjusted mean change from baseline**	-1.06	-1.15
Estimated treatment difference [95%CI] TRESIBA® - Insulin glargine U-100	0.09 [-0.04; 0.22]	
Proportion Achieving HbA_{1c} < 7% at Trial End	51.7%	54.1%
FPG (mg/dL)		
Baseline	174	174
End of trial	106	115
Adjusted mean change from baseline	-68.0	-60.2
Daily insulin dose		
Baseline mean (starting dose)	10 U	10 U
Mean dose after 52 weeks	56 U	58 U

*OAD: oral antidiabetic agent

**The change from baseline to end of treatment visit in HbA_{1c} was analysed using ANOVA with treatment, region, sex, and anti-diabetic treatment at screening as fixed effects, and age and baseline HbA_{1c} as covariates. In Study D, there were 20.6% of subjects in the TRESIBA® and 22.2% Insulin glargine arms for whom data was missing at the time of the HbA_{1c} measurement.

Study E: TRESIBA® U-200 Administered at the Same Time each Day as an Add-on to Metformin with or without a DPP-4 inhibitor in Insulin Naïve Patients

The efficacy of TRESIBA® U-200 was evaluated in a 26-week randomized, open-label, multicenter trial in 457 insulin naïve patients with type 2 diabetes mellitus inadequately controlled on one or more oral antidiabetic agents (OADs) at baseline. Patients were randomized to TRESIBA® U-200 once-daily with the evening meal or insulin glargine U-100 once-daily according to the approved labeling. Both treatment arms were receiving metformin alone (84%) or in combination with a DPP-4 inhibitor (16%) as background therapy.

The mean age of the trial population was 57.5 years and mean duration of diabetes was 8.2 years. 53.2% were male. 78.3% were White, 13.8% Black or African American. 7.9% were Hispanic. 7.5% of patients had eGFR < 60 mL/min/1.73m². The mean BMI was approximately 32.4 kg/m².

At week 26, the difference in HbA_{1c} reduction from baseline between TRESIBA® U-200 and insulin glargine U-100 was 0.04% with a 95% confidence interval of [-0.11%; 0.19%] and met the pre-specified non-inferiority margin (0.4%). See Table 9.

Table 9: Results at Week 26 in a Trial Comparing TRESIBA® U-200 to Insulin glargine U-100 in Patients with Type 2 Diabetes Mellitus on OAD(s)*

	TRESIBA® U-200 + Met ± DPP-4	Insulin glargine U-100 + Met ± DPP-4
N	228	229
HbA_{1c} (%)		
Baseline	8.3	8.2
End of trial	7.0	6.9
Adjusted mean change from baseline**	-1.18	-1.22
Estimated treatment difference [95%CI] TRESIBA® - Insulin glargine U-100	0.04 [-0.11; 0.19]	
Proportion Achieving HbA_{1c} < 7% at Trial End	52.2%	55.9%
FPG (mg/dL)		
Baseline	172	174
End of trial	106	113
Adjusted mean change from baseline	-71.1	-63.5
Daily insulin dose		
Baseline mean	10 U	10 U
Mean dose after 26 weeks	59 U	62 U

*OAD: oral antidiabetic agent

**The change from baseline to end of treatment visit in HbA_{1c} was analysed using ANOVA with treatment, region, sex, and anti-diabetic treatment at screening as fixed effects, and age and baseline HbA_{1c} as covariates. In Study E, there were 12.3% of subjects in the TRESIBA® and 12.7% Insulin glargine arms for whom data was missing at the time of the HbA_{1c} measurement.

Study F: TRESIBA® Administered at the Same Time each Day in Insulin Naïve Patients as an Add-on to One or More of the Following Oral Agents: Metformin, Sulfonylurea, Glitazides or Alpha-Glucosidase inhibitors

The efficacy of TRESIBA® was evaluated in a 26-week randomized, open-label, multicenter trial in Asia in 435 insulin naïve patients with type 2 diabetes mellitus inadequately controlled on one or more oral antidiabetic agents (OADs) at baseline. Patients were randomized to TRESIBA® once-daily in the evening or insulin glargine U-100 once-daily according to the approved labeling. Pre-trial oral antidiabetic agents were continued as background therapy except for DPP-4 inhibitors or thiazolidinediones in both treatment arms.

The mean age of the trial population was 58.6 years and mean duration of diabetes was 11.6 years. 53.6% were male. All patients were Asian. 10.9% of patients had eGFR < 60 mL/min/1.73m². The mean BMI was approximately 25.0 kg/m².

At week 26, the difference in HbA_{1c} reduction from baseline between TRESIBA® and insulin glargine U-100 was 0.11% with a 95% confidence interval of [-0.03%; 0.24%] and met the pre-specified non-inferiority margin (0.4%). See Table 10.

Table 10: Results at Week 26 in a Trial Comparing TRESIBA® to Insulin glargine U-100 in Patients with Type 2 Diabetes Mellitus on OAD(s)*

	TRESIBA® + OAD(s)*	Insulin glargine U-100 + OAD(s)*
N	289	146
HbA_{1c} (%)		
Baseline	8.4	8.5
End of trial	7.2	7.1
Adjusted mean change from baseline**	-1.42	-1.52
Estimated treatment difference [95%CI] TRESIBA® - Insulin glargine U-100	0.11 [-0.03; 0.24]	
Proportion Achieving HbA_{1c} < 7% at Trial End	40.8%	48.6%
FPG (mg/dL)		
Baseline	152	156
End of trial	100	102
Adjusted mean change from baseline	-54.6	-53.0
Daily insulin dose		
Baseline mean (starting dose)	9 U	9 U
Mean dose after 26 weeks	19 U	24 U

*OAD: oral antidiabetic agent

**The change from baseline to end of treatment visit in HbA_{1c} was analysed using ANOVA with treatment, region, sex, and anti-diabetic treatment at screening as fixed effects, and age and baseline HbA_{1c} as covariates. In Study F, there were 10% of subjects in the TRESIBA® and 6.8% Insulin glargine arms for whom data was missing at the time of the HbA_{1c} measurement.

Study G: TRESIBA® Administered at the Same Time each Day or Any Time each Day as an Add-on to One and up to Three of the Following Oral Agents: Metformin, Sulfonylurea or Glinides or Pioglitazone

The efficacy of TRESIBA® was evaluated in a 26-week randomized, open-label, multicenter trial in 687 patients with type 2 diabetes mellitus inadequately controlled on basal insulin alone, oral antidiabetic agents (OADs) alone or both basal insulin and OAD. Patients were randomized to TRESIBA® injected once-daily at the same time each day (with the main evening meal), to TRESIBA® injected once daily at any time each day or to insulin glargine U-100 injected once-daily according to the approved labeling. The any time each day TRESIBA® arm was designed to simulate a worst-case scenario injection schedule of alternating short and long, once daily, dosing intervals (i.e., alternating intervals of 8 to 40 hours between doses). TRESIBA® in this arm was dosed in the morning on Monday, Wednesday, and Friday and in the evening on Tuesday, Thursday, Saturday, and Sunday. Up to three of the following oral antidiabetic agents (metformin, sulfonylureas, glinides or thiazolidinediones) were administered as background therapy in both treatment arms.

The mean age of the trial population was 56.4 years and mean duration of diabetes was 10.6 years. 53.9% were male. 66.7% were White, 2.5% Black or African American. 10.6% were Hispanic. 5.8% of patients had eGFR < 60 mL/min/1.73m². The mean BMI was approximately 29.6 kg/m².

At week 26, the difference in HbA_{1c} reduction from baseline between TRESIBA® at alternating times and insulin glargine U-100 was 0.04% with a 95% confidence interval of [-0.12%; 0.20%]. This comparison met the pre-specified non-inferiority margin (0.4%). See Table 11.

Table 11: Results at Week 26 in a Trial Comparing TRESIBA® at same and alternating times to Insulin glargine U-100 in Patients with Type 2 Diabetes Mellitus on OAD(s)*

	TRESIBA® at the same time each day ± OAD(s)*	TRESIBA® at alternating times ± OAD(s)*	Insulin glargine U-100 ± OAD(s)*
N	228	229	230
HbA_{1c} (%)			
Baseline	8.4	8.5	8.4
End of trial	7.3	7.2	7.1
Adjusted mean change from baseline**	-1.03	-1.17	-1.21
Estimated treatment difference [95%CI] TRESIBA® alternating - Insulin glargine U-100	0.04 [-0.12;0.20]		
Estimated treatment difference TRESIBA® alternating - TRESIBA® same	-0.13		
Proportion Achieving HbA_{1c} < 7% at Trial End	40.8%	38.9%	43.9%
FPG (mg/dL)			
Baseline	158	162	163
End of trial	105	105	112
Adjusted mean change from baseline	-54.2	-55.0	-47.5
Daily insulin dose			
Baseline mean	21 U	19 U	19 U
Mean dose after 26 weeks	45 U	46 U	44 U

*OAD: oral antidiabetic agent

**The change from baseline to end of treatment visit in HbA_{1c} was analysed using ANOVA with treatment, region, sex, and anti-diabetic treatment at screening as fixed effects, and age and baseline HbA_{1c} as covariates. In Study G, there were 11.4% subjects for TRESIBA® (both same time and alternating times) and 11.7% Insulin glargine arms for whom data was missing at the time of the HbA_{1c} measurement.

Study H: TRESIBA® Administered at the Same Time each Day in Combination with a Rapid-Acting Insulin Analog at Mealtimes

The efficacy of TRESIBA® was evaluated in a 52-week randomized, open-label, multicenter trial in 992 patients with type 2 diabetes mellitus inadequately controlled on premix insulin, bolus insulin alone, basal insulin alone, oral antidiabetic agents (OADs) alone or any combination thereof. Patients were randomized to TRESIBA® once-daily with the main evening meal or insulin glargine U-100 once-daily according to the approved labeling. Insulin aspart was administered before each meal in both treatment arms. Up to two of the following oral antidiabetic agents (metformin or pioglitazone) were used as background therapy in both treatment arms.

The mean age of the trial population was 58.9 years and mean duration of diabetes was 13.5 years. 54.2% were male. 82.9% were White, 9.5% Black or African American. 12.0% were Hispanic. 12.4% of patients had eGFR < 60 mL/min/1.73m². The mean BMI was approximately 32.2 kg/m².

At week 52, the difference in HbA_{1c} reduction from baseline between TRESIBA® and insulin glargine U-100 was 0.08% with a 95% confidence interval of [-0.05%; 0.21%] and met the pre-specified non-inferiority margin (0.4%). See Table 12.

Table 12: Results at Week 52 in a Trial Comparing TRESIBA® to Insulin glargine U-100 in Patients with Type 2 Diabetes Mellitus receiving Insulin aspart at mealtimes and OADs*

	TRESIBA® + Insulin aspart ± OAD(s)*	Insulin glargine U-100 + Insulin aspart ± OAD(s)*
N	744	248
HbA_{1c} (%)		
Baseline	8.3	8.4
End of trial	7.1	7.1
Adjusted mean change from baseline**	-1.10	-1.18
Estimated treatment difference [95%CI] TRESIBA® - Insulin glargine U-100	0.08 [-0.05;0.21]	
Proportion Achieving HbA_{1c} < 7% at Trial End	49.5%	50.0%
FPG (mg/dL)		
Baseline	166	166
End of trial	122	127
Adjusted mean change from baseline	-40.6	-35.3
Daily basal insulin dose		
Baseline mean	42 U	41 U
Mean dose after 52 weeks	74 U	67 U
Daily bolus insulin dose		
Baseline mean	33 U	33 U
Mean dose after 52 weeks	70 U	73 U

*OAD: oral antidiabetic agent

**The change from baseline to end of treatment visit in HbA_{1c} was analysed using ANOVA with treatment, region, sex, and anti-diabetic treatment at screening as fixed effects, and age and baseline HbA_{1c} as covariates. In Study H, there were 16.1% of subjects in the TRESIBA® and 14.5% Insulin glargine arms for whom data was missing at the time of the HbA_{1c} measurement.

Study I: TRESIBA® Administered at Any Time each Day as an Add-on to One or Two of the Following Oral Agents: Metformin, Sulfonylurea, or Pioglitazone

The efficacy of TRESIBA® was evaluated in a 26-week randomized, open-label, multicenter trial in 447 patients with type 2 diabetes mellitus inadequately controlled on one or more oral antidiabetic agent (OADs) at baseline. Patients were randomized to TRESIBA® once-daily at any time of day or sitagliptin once-daily according to the approved labeling. One or two of the following oral antidiabetic agents (metformin, sulfonylurea or pioglitazone) were also administered in both treatment arms.

The mean age of the trial population was 55.7 years and mean duration of diabetes was 7.7 years. 58.6% were male. 61.3% were White, 7.6% Black or African American. 21.0% were Hispanic. 6% of patients had eGFR < 60 mL/min/1.73m². The mean BMI was approximately 30.4 kg/m².

At the end of 26 weeks, TRESIBA® provided greater reduction in mean HbA_{1c} compared to sitagliptin (p < 0.001). See Table 13.

Table 13: Results at Week 26 in a Trial Comparing TRESIBA® to Sitagliptin in Patients with Type 2 Diabetes Mellitus on OADs*

	TRESIBA® + OAD(s)*	Sitagliptin + OAD(s)*
N	225	222
HbA_{1c} (%)		
Baseline	8.8	9.0
End of trial	7.2	7.7
Adjusted mean change from baseline**	-1.52	-1.09
Estimated treatment difference [95%CI] TRESIBA® - Sitagliptin	-0.43 [-0.61;-0.24] ¹	
Proportion Achieving HbA_{1c} < 7% at Trial End	40.9%	27.9%
FPG (mg/dL)		
Baseline	170	179
End of trial	112	154
Adjusted mean change from baseline	-61.4	-22.3
Daily insulin dose		
Baseline mean	10 U	N/A
Mean dose after 26 weeks	43 U	N/A

*OAD: oral antidiabetic agent

**The change from baseline to end of treatment visit in HbA_{1c} was analysed using ANOVA with treatment, region, sex, and anti-diabetic treatment at screening as fixed effects, and age and baseline HbA_{1c} as covariates. In Study I, there were 20.9% of subjects in the TRESIBA® and 22.5% Sitagliptin arms for whom data was missing at the time of the HbA_{1c} measurement.

¹p < 0.001; 1-sided p-value evaluated at 2.5% level for superiority

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

TRESIBA® is available as a clear and colorless solution in the following package sizes (see Table 14).

Table 14: Presentations of TRESIBA®

TRESIBA®	Total volume	Concentration	Total units available in presentation	NDC number	Max dose per injection	Dose increment	Package Size
U-100 FlexTouch®	3 mL	100 units/mL	300 Units	0169-2660-15	80 Units	1 Unit	5 pens/pack
U-200 FlexTouch®	3 mL	200 units/mL	600 Units	0169-2550-13	160 Units	2 Unit	3 pens/pack

16.2 Recommended Storage

Unused TRESIBA® should be stored between 36°F to 46°F (2°C and 8°C). Do not store in the freezer or directly adjacent to the refrigerator cooling element. Do not freeze. Do not use TRESIBA® if it has been frozen.

Unopened FlexTouch® disposable prefilled pen:

Not in-use (unopened) TRESIBA® disposable prefilled pen should be stored in a refrigerator (36°F - 46°F [2°C - 8°C]). Discard after expiration date.

Open (In-Use) FlexTouch® disposable prefilled pen:

The in-use TRESIBA® FlexTouch® pen should NOT be refrigerated but should be kept at room temperature (below 86°F [30°C]) away from direct heat and light. The opened (in-use) TRESIBA® FlexTouch® pen may be used for up to 56 days (8 weeks) after being opened, if it is kept at room temperature.

The storage conditions are summarized in Table 15:

Table 15: Storage Conditions for TRESIBA® FlexTouch®

	Not in-use (unopened) Refrigerated (36°F - 46°F [2°C - 8°C])	Not in-use (unopened) Room Temperature (below 86°F [30°C])	In-use (opened) Room Temperature (below 86°F [30°C])
3 mL TRESIBA® U-100 FlexTouch®	Until expiration date	56 days (8 weeks)	56 days (8 weeks) (Do not refrigerate)
3 mL TRESIBA® U-200 FlexTouch®	Until expiration date	56 days (8 weeks)	56 days (8 weeks) (Do not refrigerate)

17 PATIENT COUNSELING INFORMATION

See FDA-Approved Patient Labeling (Patient Information and Instructions for Use)

Never Share a TRESIBA® FlexTouch® Pen Between Patients

Advise patients that they should never share a TRESIBA® FlexTouch®, pen device with another person, even if the needle is changed, because doing so carries a risk for transmission of bloodborne pathogens [see Warnings and Precautions (5.1)].

Hyperglycemia or Hypoglycemia

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 hyper- or hypoglycemia.

Advise patients that changes in insulin regimen should be made under close medical supervision [see Warnings and Precautions (5.2)].

Medication errors

Inform patients to always check the insulin label before each injection [see Warnings and Precautions (5.4)]. TRESIBA® FlexTouch® pen is available in concentrations of 100 units/mL or 200 units/mL.

Inform patients that the dose counter of TRESIBA® FlexTouch® pen shows the number of units of TRESIBA® to be injected. NO dose re-calculation is required [see Dosage and Administration (2.2)].

Instruct patients that when injecting TRESIBA®, they must press and hold down the dose button until the dose counter shows 0 and then keep the needle in the skin and count slowly to 6. When the dose counter returns to 0, the prescribed dose is not completely delivered until 6 seconds later. If the needle is removed earlier, they may see a stream of insulin coming from the needle tip. If so, the full dose will not be delivered (a possible under-dose may occur by as much as 20%), and they should increase the frequency of checking their blood glucose levels and possible additional insulin administration may be necessary.

- If 0 does not appear in the dose counter after continuously pressing the dose button, the patient may have used a blocked needle. In this case they would not have received any insulin – even though the dose counter has moved from the original dose that was set.
- If the patient did have a blocked or damaged needle, instruct them to change the needle as described in Step 15 of the Instructions for Use and repeat all steps in the IFU starting with a new needle and the Section Preparing your TRESIBA® FlexTouch® Pen. **Make sure the patient selects the full dose needed.**

If patients routinely do not hold the needle under the skin as recommended, the patient may need to slightly increase the dialed insulin dose to achieve the patient's glycemic targets.

Instruct patients to not re-use needles. A new needle must be attached before each injection. Reuse of needles increases the risk of blocked needles which may cause under-dosing or overdosing.

Instruct Patients to never use a syringe to remove TRESIBA® from the FlexTouch® disposable insulin prefilled pen.

Administration

TRESIBA® must only be used if the solution is clear and colorless with no particles visible.

Patients must be advised that TRESIBA® must NOT be diluted or mixed with any other insulin or solution [see Dosage and Administration (2.1)].

Management of Hypoglycemia and Handling of Special Situations

Patients should be instructed on self-management procedures including glucose monitoring, proper injection technique, and management of hypoglycemia and hyperglycemia. Patients must be instructed on handling of special situations such as intercurrent conditions (illness, stress, or emotional disturbances), an inadequate or skipped insulin dose, inadvertent administration of an increased insulin dose, inadequate food intake, and skipped meals [see Warnings and Precautions (5.3)].

Refer patients to the TRESIBA® “Patient Information” for additional information about the potential side effects of insulin therapy, including lipodystrophy (and the need to rotate injection sites within the same body region), weight gain, allergic reactions, and hypoglycemia.

Women of Reproductive Potential

Advise patients to inform their health care professional if they are pregnant or are contemplating pregnancy.

Rx Only

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TRESIBA® is covered by US Patent No. 7,615,532 and other patents pending. FlexTouch® is covered by US Patent Nos. 6,899,699, 7,686,786, 8,672,898, 8,684,969, 8,920,383, D724,721, D734,450 and other patents pending.

Manufactured by:
Novo Nordisk A/S
DK-2880 Bagsvaerd, Denmark

For information about TRESIBA® contact:

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Patient Information
TRESIBA® (tre-SI-bah)
 (insulin degludec injection)

Do not share your TRESIBA® FlexTouch® insulin delivery device with other people, even if the needle has changed. You may give other people a serious infection, or get a serious infection from them.

What is TRESIBA®?

- TRESIBA® is a man-made insulin that is used to control high blood sugar in adults with diabetes mellitus.
- TRESIBA® is not for people with diabetic ketoacidosis (increased ketones in the blood or urine).
- TRESIBA® is available in 2 concentrations: The 100 units/mL pen can be injected from 1 to 80 units in a single injection, in increments of 1 unit. The 200 units/mL pen can be injected from 2 to 160 units in a single injection, in increments of 2 units.
- It is not known if TRESIBA® is safe and effective in children under 18 years of age.

Who should not take TRESIBA®?

Do not take TRESIBA® if you:

- are having an episode of low blood sugar (hypoglycemia).
- have an allergy to TRESIBA® or any of the ingredients in TRESIBA®.

Before taking TRESIBA®, tell your healthcare provider about all your medical conditions including, if you are:

- pregnant, planning to become pregnant, or are breastfeeding.
- taking new prescription or over-the-counter medicines, vitamins, or herbal supplements.

Before you start taking TRESIBA®, talk to your healthcare provider about low blood sugar and how to manage it.

How should I take TRESIBA®?

- **Read the Instructions for Use** that come with your TRESIBA®.
- Take TRESIBA® exactly as your healthcare provider tells you to.
- **Do not do any conversion of your dose. The dose counter always shows the selected dose in units.** Both the 100 units/mL and 200 units/mL TRESIBA® FlexTouch® pens are made to deliver your insulin dose in units.
- Know the type and strength of insulin you take. **Do not** change the type of insulin you take unless your healthcare provider tells you to. The amount of insulin and the best time for you to take your insulin may need to change if you take different types of insulin.
- If you miss or are delayed in taking your dose of TRESIBA®:
 - Take your dose as soon as you remember then continue with your regular dosing schedule.
 - Make sure there are at least **8** hours between your doses.
- **Check your blood sugar levels.** Ask your healthcare provider what your blood sugars should be and when you should check your blood sugar levels.
- **Do not reuse or share your needles with other people.** You may give other people a serious infection or get a serious infection from them.
- **Never** inject TRESIBA® into a vein or muscle.
- **Never** use a syringe to remove TRESIBA® from the FlexTouch® pen.

What should I avoid while taking TRESIBA®?

While taking TRESIBA® do not:

- Drive or operate heavy machinery, until you know how TRESIBA® affects you.
- Drink alcohol or use prescription or over-the-counter medicines that contain alcohol.

What are the possible side effects of TRESIBA®?

TRESIBA® 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	◦ blurred vision	◦ anxiety, irritability, or mood changes
◦ sweating	◦ slurred speech	◦ hunger
◦ confusion	◦ shakiness	◦ headache
◦ fast heartbeat		
- **Low potassium in your blood (hypokalemia).**
- **Heart failure.** Taking certain diabetes pills called thiazolidinediones or "TZDs" with TRESIBA® 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 TRESIBA®. Your healthcare provider should monitor you closely while you are taking TZDs with TRESIBA®. Tell your healthcare provider if you have any new or worse symptoms of heart failure including shortness of breath, tiredness, swelling of your ankles or feet and sudden weight gain. Treatment with TZDs and TRESIBA® may need to be adjusted or stopped by your healthcare provider if you have new or worse heart failure.

Your insulin dose may need to change because of:

- change in level of physical activity or exercise
- increased stress
- change in diet
- weight gain or loss
- illness

Common side effects of TRESIBA® may include:

- serious allergic reactions (whole body reactions), reactions at the injection site, skin thickening or pits at the injection site (lipodystrophy), itching, rash, swelling of your hands and feet, and weight gain.

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.

These are not all the possible side effects of TRESIBA®. 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 TRESIBA®.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. You can ask your pharmacist or healthcare provider for information about TRESIBA® that is written for health professionals. Do not use TRESIBA® for a condition for which it was not prescribed. Do not give TRESIBA® to other people, even if they have the same symptoms that you have. It may harm them.

What are the ingredients in TRESIBA®?

Active Ingredient: insulin degludec

Inactive Ingredients: zinc, metacresol, glycerol, phenol, and water for injection. Hydrochloric acid or sodium hydroxide may be added.

Manufactured by: Novo Nordisk A/S DK-2880 Bagsvaerd, Denmark

For more information, go to www.novonordisk-us.com or call 1-800-727-6500.

Instructions for Use

TRESIBA® (tre-SI-bah) FlexTouch® Pen 200 units/mL (insulin degludec injection)

- **Do not share your TRESIBA® FlexTouch® Pen with other people, even if the needle is changed. You may give other people a serious infection, or get a serious infection from them.**
- **TRESIBA® FlexTouch® Pen 200 units/mL (“Pen”) is a prefilled disposable pen** containing 600 units of TRESIBA® (insulin degludec injection) 200 units/mL insulin. You can inject from 2 to 160 units in a single injection. The units can be increased by 2 units at a time.
- **This Pen is not recommended for use by the blind or visually impaired without the assistance of a person trained in the proper use of the product.**

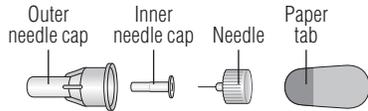
Supplies you will need to give your TRESIBA® injection:

- TRESIBA® FlexTouch® Pen
- a new NovoFine® or NovoTwist® needle
- alcohol swab
- a sharps container for throwing away used Pens and needles. **See “After your injection” at the end of these instructions.**

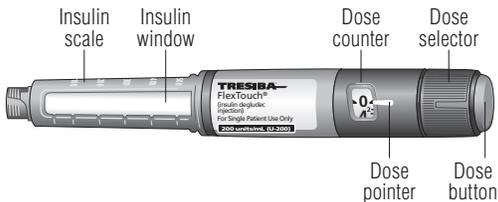
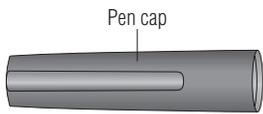
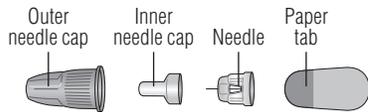
Preparing your TRESIBA® FlexTouch® Pen:

- Wash your hands with soap and water.
- **Before you start to prepare your injection, check the TRESIBA® FlexTouch® Pen label to make sure you are taking the right type of insulin. This is especially important if you take more than 1 type of insulin.**
- TRESIBA® should look clear and colorless. **Do not use TRESIBA® if it is cloudy or colored.**
- **Do not use TRESIBA® past the expiration date printed on the label or 56 days after you start using the Pen.**
- **Always use a new needle for each injection to help ensure sterility and prevent blocked needles. Do not reuse or share needles with another person. You may give other people a serious infection, or get a serious infection from them.**

NovoFine®



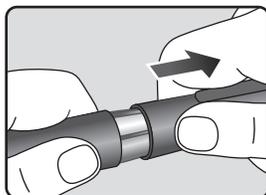
NovoTwist®



(Figure A)

Step 1:

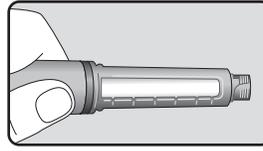
- Pull Pen cap straight off (See Figure B).



(Figure B)

Step 2:

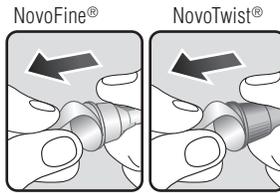
- **Check the liquid in the Pen** (See Figure C). TRESIBA® should look clear and colorless. **Do not** use it if it looks cloudy or colored.



(Figure C)

Step 3:

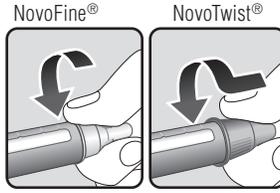
- **Select a new needle.**
- Pull off the paper tab from the outer needle cap (See Figure D).



(Figure D)

Step 4:

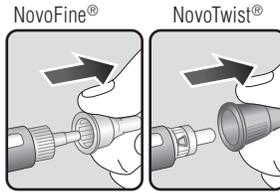
- Push the capped needle straight onto the Pen and twist the needle on until it is tight (See Figure E).



(Figure E)

Step 5:

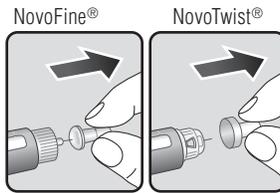
- Pull off the outer needle cap. **Do not** throw it away (See Figure F).



(Figure F)

Step 6:

- Pull off the inner needle cap and throw it away (See Figure G).

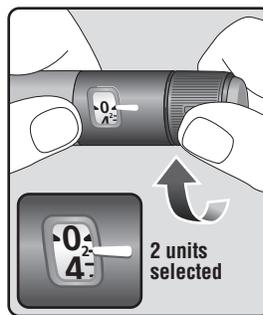


(Figure G)

Priming your TRESIBA® FlexTouch® Pen:

Step 7:

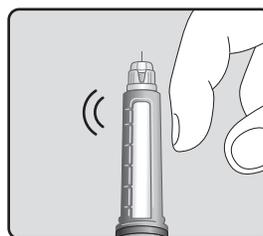
- Turn the dose selector to **select 2 units** (See Figure H).



(Figure H)

Step 8:

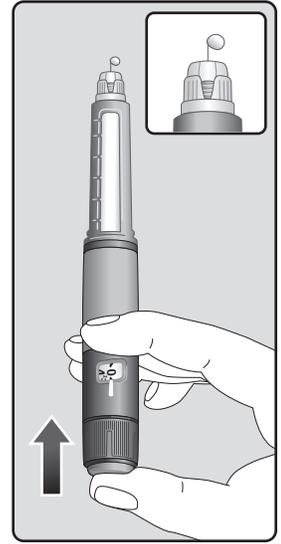
- Hold the Pen with the needle pointing up. Tap the top of the Pen gently a few times to let any air bubbles rise to the top (See Figure I).



(Figure I)

Step 9:

- **Hold the Pen with the needle pointing up.** Press and hold in the dose button until the dose counter shows “0”. The “0” must line up with the dose pointer.
- A drop of insulin should be seen at the needle tip (See Figure J).
 - If you **do not** see a drop of insulin, repeat steps 7 to 9, no more than 6 times.
 - If you **still do not** see a drop of insulin, change the needle and repeat steps 7 to 9.



(Figure J)

Selecting your dose:

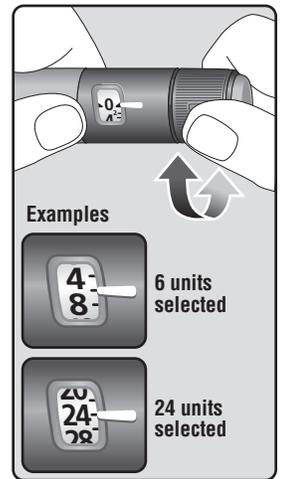
Step 10:

TRESIBA® FlexTouch® Pen 200 units/mL is made to deliver the number of insulin units that your healthcare provider prescribed. **Do not perform any dose conversion.**

Check to make sure the dose selector is set at 0.

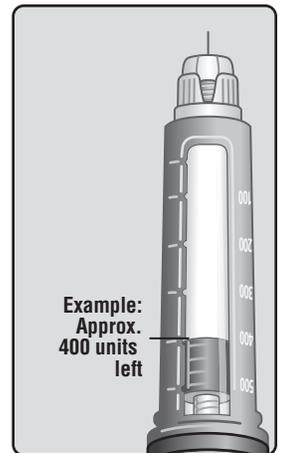
- **Turn the dose selector to select the number of units you need to inject.** The dose pointer should line up with your dose (See Figure K).

- If you select the wrong dose, you can turn the dose selector forwards or backwards to the correct dose.
- Each line on the dial is an even number.



(Figure K)

- The TRESIBA® FlexTouch® Pen insulin scale will show you how much insulin is left in your Pen (See Figure L).



(Figure L)

- **To see how much insulin is left in your TRESIBA® FlexTouch® Pen:**

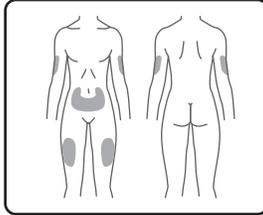
- Turn the dose selector until it stops. The dose counter will line up with the number of units of insulin that is left in your Pen. If the dose counter shows 160, there are **at least 160** units left in your Pen.
- If the dose counter shows **less than 160**, the number shown in the dose counter is the number of units left in your Pen.

Giving your injection:

- Inject your TRESIBA® exactly as your healthcare provider has shown you. Your healthcare provider should tell you if you need to pinch the skin before injecting.
- TRESIBA® can be injected 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. **Do not** use the same injection site for each injection.

Step 11:

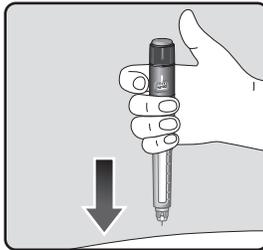
- Choose your injection site and wipe the skin with an alcohol swab (See Figure M). Let the injection site dry before you inject your dose.



(Figure M)

Step 12:

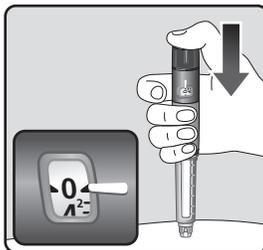
- Insert the needle into your skin** (See Figure N).
 - Make sure you can see the dose counter. Do not** cover it with your fingers, this can stop your injection.



(Figure N)

Step 13:

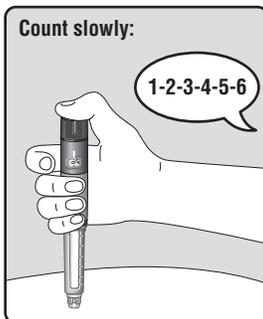
- Press and hold down the dose button until the dose counter shows "0"** (See Figure O).
 - The "0" must line up with the dose pointer. You may then hear or feel a click.



(Figure O)

- Keep the needle in your skin after the dose counter has returned to "0" and slowly count to 6** (See Figure P).

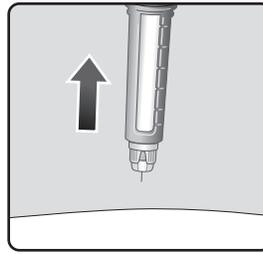
- When the dose counter returns to "0", you will not get your full dose until 6 seconds later.**
- If the needle is removed before you count to 6, you may see a stream of insulin coming from the needle tip.**
- If you see a stream of insulin coming from the needle tip you will not get your full dose. If this happens you should check your blood sugar levels more often because you may need more insulin.**



(Figure P)

Step 14:

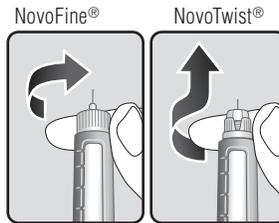
- Pull the needle out of your skin** (See Figure Q).
 - If you see blood after you take the needle out of your skin, press the injection site lightly with a piece of gauze or an alcohol swab. **Do not** rub the area.



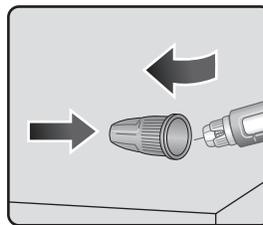
(Figure Q)

Step 15:

- Carefully remove the needle from the Pen and throw it away** (See Figure R).
 - Do not** recap the needle. Recapping the needle can lead to needle stick injury.
- If you **do not** have a sharps container, carefully slip the needle into the outer needle cap (See Figure S). Safely remove the needle and throw it away as soon as you can.
 - Do not** store the Pen with the needle attached. Storing without the needle attached helps prevent leaking, blocking of the needle, and air from entering the Pen.



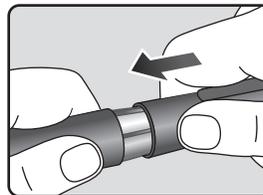
(Figure R)



(Figure S)

Step 16:

- Replace the Pen cap by pushing it straight on (See Figure T).



(Figure T)

After your injection:

- Put your used TRESIBA® FlexTouch® Pen and needles in a FDA-cleared sharps disposal container right away after use. Do not throw away (dispose of) loose needles and Pens 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
 - 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. Do not reuse or share needles or syringes with another person. For more information about the 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.

How should I store my TRESIBA® FlexTouch® Pen?**Before use:**

- Store unused TRESIBA® FlexTouch® Pens in the refrigerator at 36°F to 46°F (2°C to 8°C).
- Do not** freeze TRESIBA®. **Do not** use TRESIBA® if it has been frozen.
- Unused Pens may be used until the expiration date printed on the label, if kept in the refrigerator.

Pen in use:

- Store the Pen you are currently using out of the refrigerator below 86°F.
- Keep TRESIBA® away from heat or light.
- The TRESIBA® FlexTouch® Pen you are using should be thrown away after 56 days, even if it still has insulin left in it and the expiration date has not passed.

General Information about the safe and effective use of TRESIBA®.

- Keep TRESIBA® FlexTouch® Pens and needles out of the reach of children.**
- Always** use a new needle for each injection.
- Do not** share TRESIBA® FlexTouch® Pens or needles with other people. You may give other people a serious infection, or get a serious infection from them.

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

Manufactured by:

Novo Nordisk A/S
DK-2880 Bagsvaerd, Denmark

Revised: 09/2015

For more information go to
www.TRESIBA.com

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Instructions for Use

TRESIBA® (tre-SI-bah) FlexTouch® Pen 100 units/mL (insulin degludec injection)

- **Do not share your TRESIBA® FlexTouch® Pen with other people, even if the needle is changed. You may give other people a serious infection, or get a serious infection from them.**
- **TRESIBA® FlexTouch® Pen 100 units/mL (“Pen”) is a prefilled disposable pen** containing 300 units of TRESIBA® (insulin degludec injection) 100 units/mL insulin. You can inject from 1 to 80 units in a single injection. The units can be increased by 1 unit at a time.
- **This Pen is not recommended for use by the blind or visually impaired without the assistance of a person trained in the proper use of the product.**

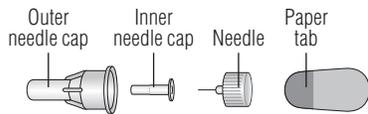
Supplies you will need to give your TRESIBA® injection:

- TRESIBA® FlexTouch® Pen
- a new NovoFine® or NovoTwist® needle
- alcohol swab
- a sharps container for throwing away used Pens and needles. **See “After your injection” at the end of these instructions.**

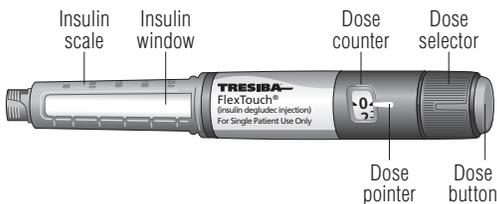
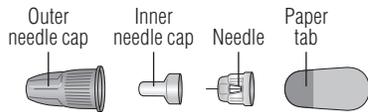
Preparing your TRESIBA® FlexTouch® Pen:

- Wash your hands with soap and water.
- **Before you start to prepare your injection, check the TRESIBA® FlexTouch® Pen label to make sure you are taking the right type of insulin. This is especially important if you take more than 1 type of insulin.**
- TRESIBA® should look clear and colorless. **Do not use TRESIBA® if it is cloudy or colored.**
- **Do not use TRESIBA® past the expiration date printed on the label or 56 days after you start using the Pen.**
- **Always use a new needle for each injection to help ensure sterility and prevent blocked needles. Do not reuse or share needles with another person. You may give other people a serious infection, or get a serious infection from them.**

NovoFine®



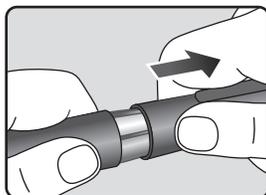
NovoTwist®



(Figure A)

Step 1:

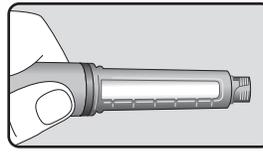
- Pull Pen cap straight off (See Figure B).



(Figure B)

Step 2:

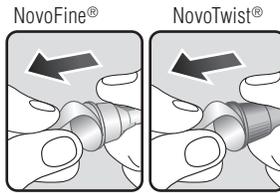
- **Check the liquid in the Pen** (See Figure C). TRESIBA® should look clear and colorless. **Do not** use it if it looks cloudy or colored.



(Figure C)

Step 3:

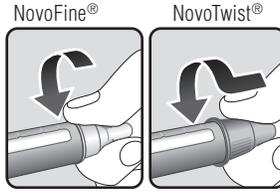
- **Select a new needle.**
- Pull off the paper tab from the outer needle cap (See Figure D).



(Figure D)

Step 4:

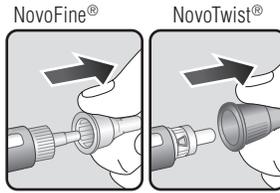
- Push the capped needle straight onto the Pen and twist the needle on until it is tight (See Figure E).



(Figure E)

Step 5:

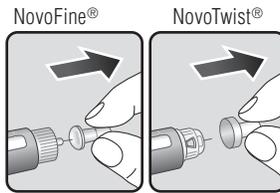
- Pull off the outer needle cap. **Do not** throw it away (See Figure F).



(Figure F)

Step 6:

- Pull off the inner needle cap and throw it away (See Figure G).

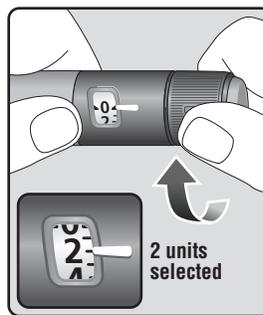


(Figure G)

Priming your TRESIBA® FlexTouch® Pen:

Step 7:

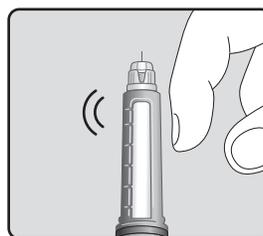
- Turn the dose selector to **select 2 units** (See Figure H).



(Figure H)

Step 8:

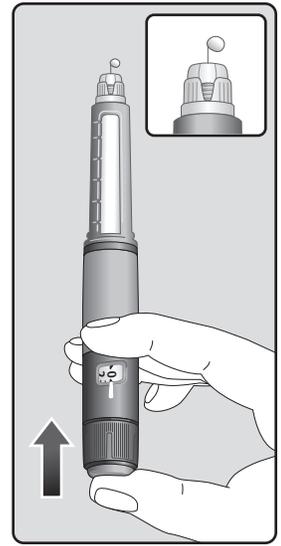
- Hold the Pen with the needle pointing up. Tap the top of the Pen gently a few times to let any air bubbles rise to the top (See Figure I).



(Figure I)

Step 9:

- **Hold the Pen with the needle pointing up.** Press and hold in the dose button until the dose counter shows “0”. The “0” must line up with the dose pointer.
- A drop of insulin should be seen at the needle tip (See Figure J).
 - If you **do not** see a drop of insulin, repeat steps 7 to 9, no more than 6 times.
 - If you **still do not** see a drop of insulin, change the needle and repeat steps 7 to 9.



(Figure J)

Selecting your dose:

Step 10:

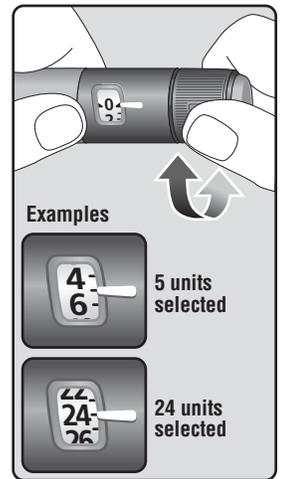
TRESIBA® FlexTouch® Pen 100 units/mL is made to deliver the number of insulin units that your healthcare provider prescribed. **Do not perform any dose conversion.**

Check to make sure the dose selector is set at 0.

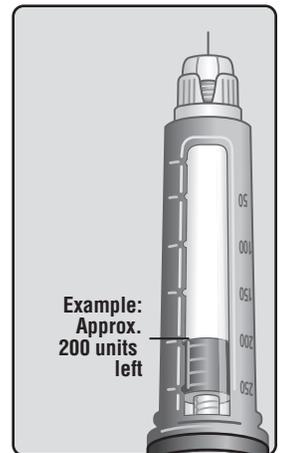
- **Turn the dose selector to select the number of units you need to inject.** The dose pointer should line up with your dose (See Figure K).

- If you select the wrong dose, you can turn the dose selector forwards or backwards to the correct dose.
- The **even** numbers are printed on the dial.
- The **odd** numbers are shown as lines.

- The TRESIBA® FlexTouch® Pen insulin scale will show you how much insulin is left in your Pen (See Figure L).



(Figure K)



(Figure L)

- **To see how much insulin is left in your TRESIBA® FlexTouch® Pen:**

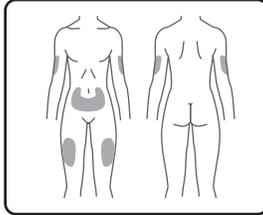
- Turn the dose selector until it stops. The dose counter will line up with the number of units of insulin that is left in your Pen. If the dose counter shows 80, there are **at least 80** units left in your Pen.
- If the dose counter shows **less than 80**, the number shown in the dose counter is the number of units left in your Pen.

Giving your injection:

- Inject your TRESIBA® exactly as your healthcare provider has shown you. Your healthcare provider should tell you if you need to pinch the skin before injecting.
- TRESIBA® can be injected 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. **Do not** use the same injection site for each injection.

Step 11:

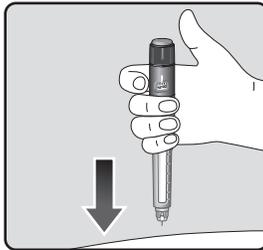
- Choose your injection site and wipe the skin with an alcohol swab (See Figure M). Let the injection site dry before you inject your dose.



(Figure M)

Step 12:

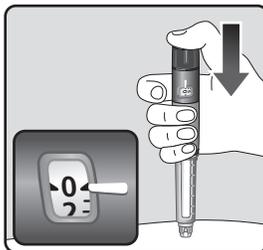
- Insert the needle into your skin** (See Figure N).
 - Make sure you can see the dose counter. Do not** cover it with your fingers, this can stop your injection.



(Figure N)

Step 13:

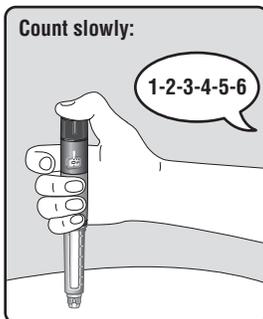
- Press and hold down the dose button until the dose counter shows "0"** (See Figure O).
 - The "0" must line up with the dose pointer. You may then hear or feel a click.



(Figure O)

- Keep the needle in your skin after the dose counter has returned to "0" and slowly count to 6** (See Figure P).

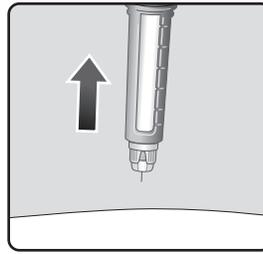
- When the dose counter returns to "0", you will not get your full dose until 6 seconds later.**
- If the needle is removed before you count to 6, you may see a stream of insulin coming from the needle tip.**
- If you see a stream of insulin coming from the needle tip you will not get your full dose. If this happens you should check your blood sugar levels more often because you may need more insulin.**



(Figure P)

Step 14:

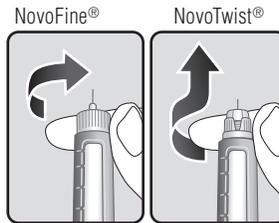
- Pull the needle out of your skin** (See Figure Q).
 - If you see blood after you take the needle out of your skin, press the injection site lightly with a piece of gauze or an alcohol swab. **Do not** rub the area.



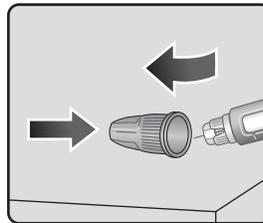
(Figure Q)

Step 15:

- Carefully remove the needle from the Pen and throw it away** (See Figure R).
 - Do not** recap the needle. Recapping the needle can lead to needle stick injury.
- If you **do not** have a sharps container, carefully slip the needle into the outer needle cap (See Figure S). Safely remove the needle and throw it away as soon as you can.
 - Do not** store the Pen with the needle attached. Storing without the needle attached helps prevent leaking, blocking of the needle, and air from entering the Pen.



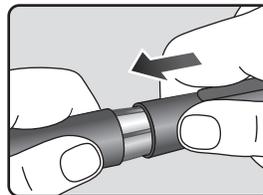
(Figure R)



(Figure S)

Step 16:

- Replace the Pen cap by pushing it straight on (See Figure T).



(Figure T)

After your injection:

- Put your used TRESIBA® FlexTouch® Pen and needles in a FDA-cleared sharps disposal container right away after use. Do not throw away (dispose of) loose needles and Pens 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
 - 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. Do not reuse or share needles or syringes with another person. For more information about the 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.

How should I store my TRESIBA® FlexTouch® Pen?**Before use:**

- Store unused TRESIBA® FlexTouch® Pens in the refrigerator at 36°F to 46°F (2°C to 8°C).
- Do not** freeze TRESIBA®. **Do not** use TRESIBA® if it has been frozen.
- Unused Pens may be used until the expiration date printed on the label, if kept in the refrigerator.

Pen in use:

- Store the Pen you are currently using out of the refrigerator below 86°F.
- Keep TRESIBA® away from heat or light.
- The TRESIBA® FlexTouch® Pen you are using should be thrown away after 56 days, even if it still has insulin left in it and the expiration date has not passed.

General Information about the safe and effective use of TRESIBA®.

- Keep TRESIBA® FlexTouch® Pens and needles out of the reach of children.**
- Always** use a new needle for each injection.
- Do not** share TRESIBA® FlexTouch® Pens or needles with other people. You may give other people a serious infection, or get a serious infection from them.

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

Manufactured by:

Novo Nordisk A/S
DK-2880 Bagsvaerd, Denmark

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For more information go to
www.TRESIBA.com

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