HIGHLIGHTS OF PRESCRIBING INFORMATION

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

NORDITROPIN® (somatropin) injection, for subcutaneous use

Initial U.S. Approval: 1987

— DOSAGE AND STRENGTHS —

NORDITROPIN® injection is available as (3):

- 5 mg/1.5 mL (orange): FlexPro® single-patient-use pen
- 10 mg/1.5 mL (blue): FlexPro® single-patient-use pen
- 15 mg/1.5 mL (green): FlexPro® single-patient-use pen
- 30 mg/3 mL (purple): FlexPro® single-patient-use pen

— CONTRAINDICATIONS —

- Acute Critical Illness
- Pediatric patients with Prader-Willi syndrome who are severely obese, have history of severe upper airway obstruction, or have severe respiratory impairment due to risk of sudden death
- Active Malignancy
- Hypersensitivity to somatropin or excipients
- Active Proliferative or Severe Non-Proliferative Diabetic Retinopathy
- Pediatric patients with closed epiphyses

— WARNINGS AND PRECAUTIONS —

- Increased Risk of Neoplasms: Second neoplasms have occurred in childhood cancer survivors. Monitor patients with preexisting tumors for progression or recurrence.
- Glucose Intolerance and Diabetes Mellitus: NORDITROPIN® may decrease insulin sensitivity, particularly at higher doses. Monitor glucose levels periodically in all patients receiving NORDITROPIN®, especially in patients with existing diabetes mellitus or at risk for development.
- Intracranial Hypertension (IH): Has been reported usually within 8 weeks of initiation. Perform fundoscopic examinations prior to initiation and periodically thereafter. If papilledema occurs, stop treatment.
- Severe Hypersensitivity: Serious hypersensitivity reactions may occur. In the event of an allergic reaction, seek prompt medical attention.
- Fluid Retention: May occur in adults and may be dose dependent.
- Hyperadrenalinism: Monitor patients for reduced serum cortisol levels and/or need for glucocorticoid dose adjustment or stress doses following initiation of NORDITROPIN®.
- Hypothyroidism: Monitor thyroid function periodically as replacement of endogenous GH in adults with growth hormone deficiency.

— ADVERSE REACTIONS —

Common adverse reactions in adult and pediatric patients include: upper respiratory infection, fever, pharyngitis, headache, otitis media, edema, arthralgia, paresthesia, myalgia, peripheral edema, flu syndrome, and impaired glucose tolerance.

To report SUSPECTED ADVERSE REACTIONS, contact Novo Nordisk at 1-888-NOVO-444 (1-888-668-6444) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

— DRUG INTERACTIONS —

- Glucocorticoids: Patients treated with glucocorticoid for hypoadrenalism may require an increase in their maintenance or stress doses following initiation of NORDITROPIN®.
- Pharmacologic Glucocorticoid Therapy and Supraphysiologic Glucocorticoid Treatment: Adjust glucocorticoid replacement dosing in pediatric patients receiving glucocorticoid treatment to avoid both hypoadrenalism and an inhibitory effect on growth.
- Cytochrome P450-Metabolized Drugs: NORDITROPIN® may alter the clearance. Monitor carefully if used with NORDITROPIN®.
- Oral Estrogen: Larger doses of NORDITROPIN® may be required.
- Insulin and/or Other Hypoglycemic Agents: Dose adjustment of insulin or hypoglycemic agent may be required.

See 17 for PATIENT COUNSELING INFORMATION

Revised: 3/2020

FULL PRESCRIBING INFORMATION: CONTENTS*

1 INDICATIONS AND USAGE

1.1 Pediatric Patients
1.2 Adult Patients

2 DOSAGE AND ADMINISTRATION

2.1 Administration and Use Instructions
2.2 Pediatric Dosage
2.3 Adult Dosage

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

5.1 Increased Mortality in Patients with Acute Critical Illness
5.2 Sudden Death in Pediatric Patients with Prader-Willi Syndrome
5.3 Increased Risk of Neoplasms
5.4 Glucose Intolerance and Diabetes Mellitus
5.5 Intracranial Hypertension
5.6 Severe Hypersensitivity
5.7 Fluid Retention
5.8 Hyperadrenalinism
5.9 Hypothyroidism
5.10 Slipped Capital Femoral Epiphysis in Pediatric Patients
5.11 Progression of Preexisting Scoliosis in Pediatric Patients
5.12 Pancreatitis
5.13 Lipatrophy
5.14 Laboratory Tests

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience
6.2 Immunogenicity
6.3 Post-Marketing Experience

7 DRUG INTERACTIONS

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy
8.2 Lactation
8.4 Pediatric Use
8.5 Geriatric Use

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance
9.2 Abuse
9.3 Dependence

10 OVERDOSE

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
12.2 Pharmacodynamics
12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis and Mutagenesis, Impairment of Fertility

14 CLINICAL STUDIES

14.1 Growth Failure due to Inadequate Secretion of Endogenous Growth Hormone
14.2 Short Stature Associated with Noonan Syndrome
14.3 Short Stature Associated with Turner Syndrome
14.4 Short Stature in Children Born Small for Gestational Age (SGA) with No Catch-Up Growth by Age 2-4 Years
14.5 Idiopathic Short Stature (ISS)
14.6 Growth Failure Due to Prader-Willi Syndrome (PWS)
14.7 Adults with Growth Hormone Deficiency (GHD)

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

*Sections or subsections omitted from the full prescribing information are not listed
The recommended weekly dose in milligrams (mg) per

Divide the calculated weekly NORDITROPIN

2.1 Administration and Use Instructions

2.1.1 Pediatric Patients

NORDITROPIN is indicated for the replacement of endogenous GH in adults with growth hormone deficiency (GHD)

2.1.2 Adults

NORDITROPIN is indicated for the replacement of endogenous GH in adults with growth hormone deficiency (GHD)

2.2 Pediatiric Dosage

Individualize dosage for each patient based on the growth response.

Divide the calculated weekly NORDITROPIN dosage into equal doses given either 6, or 7 days per week.

The recommended weekly dose in milligrams (mg) per kilogram (kg) of body weight for pediatric patients is:

Pediatric GH Deficiency: 0.17 mg/kg/week to 0.24 mg/kg/week (0.024 to 0.034 mg/day)

Noonan Syndrome: Up to 0.46 mg/kg/week (up to 0.065 mg/day)

Turner Syndrome: Up to 0.67 mg/kg/week (up to 0.067 mg/day)

Small for Gestational Age (SGA): Up to 0.67 mg/kg/week (up to 0.067 mg/day)

In very young pediatric patients, HSDS less than -3, and older pubertal pediatric patients consider initiating treatment with a larger dose of NORDITROPIN (up to 0.067 mg/kg/day). Consider a gradual reduction in dosage if substantial catch-up growth is observed during the first few years of therapy. In pediatric patients less than 4 years of age with less severe short stature, baseline HSDS values between -2 and -3, consider initiating treatment at 0.033 mg/kg/day and titrate the dose as needed.

Idiopathic Short Stature: Up to 0.47 mg/kg/week (up to 0.067 mg/kg/day)

Prader-Willi Syndrome: 0.24 mg/kg/week (0.034 mg/kg/day)

Assess compliance and evaluate other causes of poor growth such as hypothyroidism, under-nutrition, advanced bone age and antibodies to recombinant human growth hormone if patients experience failure to increase height velocity, particularly during the first year of treatment.

Discontinue NORDITROPIN for stimulation of linear growth once ephysiophase fusion has occurred (see Contraindications (4)).
5.6 Severe Hypersensitivity
Serious systemic hypersensitivity reactions including anaphylactic reactions and angioedema have been reported with post-marketing use of somatropin products. Patients and caregivers should be informed that such reactions are possible and that prompt medical attention should be sought if an allergic reaction occurs (see Contraindications (4)).

5.7 Fluid Retention
Fluid retention during somatropin replacement therapy in adults may occur. Clinical manifestations of fluid retention (e.g. edema, arthralgia, myalgia, nerve compression syndromes including carpal tunnel syndrome/paresthesias) are usually transient and dose dependent.

5.8 Hypoadrenalism
Patients receiving somatropin therapy who have or are at risk for pituitary hormone deficiency(s) may be at risk for reduced serum cortisol levels and/or unmasking of central (secondary) hypoadrenalism. In addition, patients treated with glucocorticoid replacement for previously diagnosed hypoadrenalism may require an increase in their maintenance or stress doses following initiation of NORDITROPIN® treatment. Monitor patients for reduced serum cortisol levels and/or need for glucocorticoid dose increases in those with known hypoadrenalism (see Drug Interactions (7)).

5.9 Hypothyroidism
undiagnosed/untreated hypothyroidism may prevent an optimal response to NORDITROPIN®, in particular, the growth response in pediatric patients. Patients with Turner syndrome have an inherently increased risk of developing autoimmune thyroid disease and primary hypothyroidism. In patients with GH deficiency, central (secondary) hypothyroidism may first become evident or worsen during somatropin treatment. Therefore, patients should have periodic thyroid function tests and thyroid hormone replacement therapy should be initiated or appropriately adjusted when indicated.

5.10 Slipped Capitular Femoral Epiphysis in Pediatric Patients
Slipped capitular femoral epiphysis may occur more frequently in patients with endocrine disorders (including GH deficiency and Turner syndrome) or in patients undergoing rapid growth. Evaluate pediatric patients with the onset of a limp or complaints of hip or knee pain.

5.11 Progression of Preexisting Scoliosis in Pediatric Patients
Somatropin increases the growth rate, and progression of existing scoliosis can occur in patients who experience rapid growth. Somatropin has not been shown to increase the occurrence of scoliosis. Monitor patients with a history of scoliosis for progression of scoliosis.

5.12 Pancreatitis
Cases of pancreatitis have been reported in pediatric patients and adults receiving somatropin products. There may be a greater risk in pediatric patients compared with adults. Published literature indicates that females who have Turner syndrome may be at greater risk than other pediatric patients receiving somatropin products. Pancreatitis should be considered in patients who develop persistent severe abdominal pain.

5.13 Lipodystrophy
When somatropin products are administered subcutaneously at the same site over a long period of time, tissue atrophy may result. Rotate injection sites when administering NORDITROPIN® to reduce this risk (see Administration and Use Instructions (2.1)).

5.14 Laboratory Tests
Serum levels of inorganic phosphorus, alkaline phosphatase, parathyroid hormone (PTH) and IGF-I may increase after treatment with NORDITROPIN®. Serum levels of inorganic phosphorus, alkaline phosphatase, and parathyroid hormone (PTH) and IGF-I may increase after treatment with NORDITROPIN®.

5.15 Increased mortality in patients with acute critical illness
Clinical manifestations of fluid retention (e.g. edema, arthralgia, myalgia, nerve compression syndromes including carpal tunnel syndrome/paresthesias) are usually transient and dose dependent.

5.16 Clinical Trials Experience
Because clinical trials are conducted under varying conditions, adverse reaction rates observed during the clinical trials performed with another somatropin product cannot always be directly compared to the rates observed during the clinical trials performed with another somatropin product, and may not reflect the adverse reaction rates observed in practice.

5.17 Pediatric Patients

Growth Failure Due to Prader-Willi Syndrome

In one randomized, open label, clinical study the most frequent adverse reactions were headache, pharyngitis, otitis media and fever. There were no clinically significant differences between the three doses assessed in the study (0.025, 0.05 and 0.1 mg/kg/day).

Short Stature Associated with Noonan Syndrome

NORDITROPIN® was studied in 21 pediatric patients, 3 years to 14 years of age at doses of 0.033 mg/kg/day and 0.066 mg/kg/day. After the two-year study, patients continued NORDITROPIN® treatment until final height was achieved. Randomized dose groups were not maintained. Adverse reactions were later collected retrospectively from 18 pediatric patients; total follow-up was 11 years. An additional 6 pediatric patients were not randomized, but followed the protocol and are included in this assessment of adverse reactions.

The most frequent adverse reactions were upper respiratory infection, gastroenteritis, ear infection, and influenza. Cardiac disorders was the system organ class with the second most adverse reactions reported. Scolliosis was reported in 1 and 4 pediatric patients receiving doses of 0.333 mg/kg/day and 0.066 mg/kg/day, respectively. The following additional adverse reactions also occurred once: insulin resistance and panic reaction for the 0.033 mg/kg/day dose group; injection site pruritus, upper respiratory tract infection, and otitis externa, gastroenteritis, eczema and, impaired fasting glucose. Adverse reactions in study 1 were most frequent in the highest dose groups. Three patients in study 1 had excessive growth of hands and/or feet in the high dose groups. Two patients in study 2 had a serious adverse reaction of exacerbation of preexisting scoliosis in the 0.045 mg/kg/day group.

Small for Gestational Age (SGA) with No Catch-up Growth by Age 2-4 Years

In a study, 53 pediatric patients were treated with 2 doses of NORDITROPIN® (0.033 or 0.067 mg/kg/day) to final height for up to 13 years (mean duration of treatment 7.9 and 9.5 years for girls and boys, respectively). The most frequently reported adverse reactions were growth more than 4 standard deviations, upper respiratory tract infection, bronchitis, gastroenteritis, abdominal pain, otitis media, pharyngitis, arthralgia, headache, gynecomastia, and increased sweating. One pediatric patient treated with 0.067 mg/kg/day for 4 years reported with discontinuation of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to NORDITROPIN® with the incidence of antibodies to other products may be misleading. In the case of growth hormone antibodies with binding capacities lower than 2 mg/mL have not been associated with growth attenuation. In a very small number of patients treated with somatropin, when binding capacity was greater than 2 mg/mL, there was evidence that the growth was reduced. In clinical trials, GH deficient pediatric patients receiving NORDITROPIN® for up to 12 months were tested for induction of antibodies, and 0/358 patients developed antibodies with binding capacities above 2 mL. Among these patients, 165 had previously been treated with other somatropin formulations, and 193 were previously untreated naïve patients. Eighty seven children (24%) treated with NORDITROPIN® for short stature born SGA developed anti-rGH antibodies.

6.2 Immunogenicity
As with all therapeutic proteins, there is potential for immunogenicity. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to NORDITROPIN® with the incidence of antibodies to other products may be misleading. In the case of growth hormone antibodies with binding capacities lower than 2 mg/mL have not been associated with growth attenuation. In a very small number of patients treated with somatropin, when binding capacity was greater than 2 mg/mL, there was evidence that the growth was reduced. In clinical trials, GH deficient pediatric patients receiving NORDITROPIN® for up to 12 months were tested for induction of antibodies, and 0/358 patients developed antibodies with binding capacities above 2 mL. Among these patients, 165 had previously been treated with other somatropin formulations, and 193 were previously untreated naïve patients. Eighty seven children (24%) treated with NORDITROPIN® for short stature born SGA developed anti-rGH antibodies.

6.3 Post-Marketing Experience
Because these adverse reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. Immune system disorders — Serious systemic hypersensitivity reactions including anaphylactic reactions and angioedema

6.4 Other Non-Classifiable Disorders

(type 2 diabetes mellitus)
Norditropin® (somatropin) injection, for subcutaneous use

Skin — Increase in size or number of cutaneous nevi
Endocrine disorders — Hypothyroidism
Metabolism and nutrition disorders — Hyperglycemia
Musculoskeletal and connective tissue disorders — Slipped capital femoral epiphysis — Legg-Calvé-Perthes disease
Investigations — Increase in blood alkaline phosphatase level — Decrease in serum thyroxin (T4) levels
Gastrointestinal — Pancreatitis
Neoplasms — Leukemia has been reported in a small number of GH deficient children treated with somatropin, somatrem (methionylated rGH) and GH of pituitary origin

7 DRUG INTERACTIONS

Table 2 lists a number of drugs with clinically important drug interactions when administered concomitantly with NORDITROPIN® and instructions for preventing or managing them.

Table 2: Clinically Important Drug Interactions with NORDITROPIN®

<table>
<thead>
<tr>
<th>Glucocorticoids</th>
<th>Clinical Impact</th>
</tr>
</thead>
</table>
| Microsomal enzyme 11ß-hydroxysteroid dehydrogenase type 1 (11ßHSD-1) is required for conversion of corticosterone to its active metabolite, cortisol, in hepatic and adipose tissue. NORDITROPIN® inhibits 11ßHSD-1. Corticosteroids, individuals with untreated GH deficiency have relative increases in 11ßHSD-1 and serum cortisol. Initiation of NORDITROPIN® may result in inhibition of 11ßHSD-1 and reduced serum cortisol concentrations.

| Intervention | Patients treated with glucocorticoid replacement for hyperadrenalinism may require an increase in their maintenance or stress doses following initiation of NORDITROPIN®. (See Warnings and Precautions (5.8)).

| Examples | Cortisone acetate and prednisone may be affected more than others since conversion of these drugs to their biologically active metabolites is dependent on the activity of 11ßHSD-1.

| Pharmacologic Glucocorticoid Therapy and Supra-physiologic Glucocorticoid Treatment | Pharmacologic glucocorticoid therapy and supraphysiologic glucocorticoid treatment may attenuate the growth promoting effects of NORDITROPIN® in pediatric patients.

| Clinical Impact | Carefully adjust glucocorticoid replacement dosing in pediatric patients receiving glucocorticoids to avoid both hyperadrenalism and an inhibitory effect on growth.

| Cytochrome P450-Metabolized Drugs | Limited published data indicate that somatropin treatment increases cytochrome P450 (CYP450)-mediated antipyrine clearance. NORDITROPIN® may alter the clearance of compounds known to be metabolized by CYP450 liver enzymes.

| Clinical Impact | Limited published data indicate that somatropin treatment increases cytochrome P450 (CYP450)-mediated antipyrine clearance. NORDITROPIN® may alter the clearance of compounds known to be metabolized by CYP450 liver enzymes.

| Intervention | Carefully monitoring is advisable when NORDITROPIN® is administered in combination with drugs metabolized by CYP450 liver enzymes.

| Oral Estrogen | Oral estrogens may reduce the serum IGF-1 response to NORDITROPIN®.

| Clinical Impact | Oral estrogens may reduce the serum IGF-1 response to NORDITROPIN®. (See Dosage and Administration (2.3)).

| Insulin and/or Other Hypoglycemic Agents | Treatment with NORDITROPIN® may decrease insulin sensitivity, particularly at higher doses.

| Clinical Impact | Patient with diabetes mellitus may require adjustment of dose of insulin and/or other hypoglycemic agents (See Warnings and Precautions (5.4)).

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary
Limited available data with somatropin use in pregnant women are insufficient to determine a drug-associted risk of adverse developmental outcomes. In animal reproduction studies, there was no evidence of fetal or neonatal harm when pregnant rats were administered subcutaneous NORDITROPIN® during organogenesis or during lactation at doses approximately 10-100 times higher than the maximum clinical dose of 0.016 mg/kg, based on body surface area. (See Data).

The estimated background risk of birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2.4% and 15-20%, respectively.

Data
Animal Data
In an embryo-fetal development study, NORDITROPIN® was administered via subcutaneous injection to pregnant rats from gestation Day 6 to 17, corresponding with the period of organogenesis. NORDITROPIN® did not adversely affect fetal viability or developmental outcomes at maternal doses that were approximately 10 times the clinical dose of 0.016 mg/kg, based on body surface area.

In a pre- and post-natal development study in pregnant rats, NORDITROPIN® was administered via subcutaneous injection to pregnant rats from gestation Day 1 through lactation Day 21 (weaning). No adverse developmental effects were observed in the offspring at doses approximately 10 times (approximately 10 times the clinical dose of 0.016 mg/kg, based on body surface area).

8.2 Lactation

Risk Summary
There is no information regarding the presence of somatropin in human milk. Limited published data indicate that exogenous somatropin does not increase normal breastmilk concentrations of growth hormone. No adverse effects on the breastfed infant have been reported with somatropin. The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for NORDITROPIN® and any potential adverse effects on the breastfed infant from NORDITROPIN® or from the underlying maternal condition.

8.4 Pediatric Use

Safety and effectiveness of NORDITROPIN® in pediatric patients have been established in growth failure due to inadequate secretion of endogenous growth hormone, short stature associated with Noonan syndrome, short stature associated with Turner syndrome, short stature in children born small for gestational age (SGA) at birth, short stature at 4 years of age, idiopathic short stature (ISS) and growth failure due to Prader-Willi syndrome (PWS).

Safety and effectiveness of NORDITROPIN® have been established in pediatric patients with growth failure due to growth hormone deficiency in a multi-center, prospective, open-label, randomized, parallel group study in 21 pediatric patients conducted for a two-year period (See Clinical Studies (14.1)).

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

NORDITROPIN® contains somatropin, which is not a controlled substance.

9.2 Abuse

Inappropriate use of somatropin may result in significant negative health consequences.

9.3 Dependence

Somatropin is not associated with drug related withdrawal adverse reactions.

10 OVERDOSAGE

Short-term overdosage could lead initially to hypoglycemia and subsequently to hyperglycemia. Overdose with somatropin has been shown to cause plasma glucose abnormalities, mainly associated with a hyperinsulinaemia which leads to a marked increase in insulin sensitivity, particularly at higher doses.

11 DESCRIPTION

NORDITROPIN® (somatropin) for injection is a recombinant human growth hormone. It is a polypeptide of recombinant DNA origin and is synthesized by a special strain of E. coli bacteria that has been modified by the addition of a plasmid which carries the gene for human growth hormone. NORDITROPIN® contains the identical sequence of 191 amino acids constituting the naturally occurring pituitary human growth hormone with a molecular weight of about 22,000 Daltons.

NORDITROPIN® is supplied as a sterile solution for subcutaneous use in ready-to-administer prefilled pens with a volume of 1.5 mL or 3 mL. Each NORDITROPIN® contains the following (See Table 3):

<table>
<thead>
<tr>
<th>Component</th>
<th>5 mg/1.5 mL</th>
<th>10 mg/1.5 mL</th>
<th>15 mg/1.5 mL</th>
<th>30 mg/3 mL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Somatropin</td>
<td>5 mg</td>
<td>10 mg</td>
<td>15 mg</td>
<td>30 mg</td>
</tr>
<tr>
<td>Hisseline</td>
<td>1 mg</td>
<td>2 mg</td>
<td>3 mg</td>
<td></td>
</tr>
<tr>
<td>Poloxamer 188</td>
<td>4.5 mg</td>
<td>4.5 mg</td>
<td>4.5 mg</td>
<td>9 mg</td>
</tr>
<tr>
<td>Phenol</td>
<td>4.5 mg</td>
<td>4.5 mg</td>
<td>4.5 mg</td>
<td>9 mg</td>
</tr>
<tr>
<td>Mannitol</td>
<td>60 mg</td>
<td>60 mg</td>
<td>58 mg</td>
<td>117 mg</td>
</tr>
</tbody>
</table>

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Somatropin binds to dimeric GH receptors located within the cell membranes of target tissue cells. This interaction results in the transduction of a signal that subsequently induces the transcription and translation of GH-dependent proteins including IGF-1, IGF BP-3 and acid-labile subunit. Somatropin has direct tissue and metabolic effects or mediated indirectly by IGF-1, including stimulation of chondrocyte differentiation, and proliferation, stimulation hepatic glucose output, protein synthesis and lipolysis.

Somatropin stimulates skeletal growth in pediatric patients with GH deficiency as a result of growth plate (epiphyses) of long bones. The stimulation of skeletal growth increases linear growth rate (height velocity) in most somatropin-treated pediatric patients. Linear growth is facilitated in part by increased cellular protein synthesis.
12.2 Pharmacodynamics
Subcutaneous administration of a single dose of 4 mg NOR-DITROPIN® in healthy subjects (n=26) with suppressed endogenous growth hormone results in a mean (SD) t1/2 of 190 (40) min, a mean apparent terminal half-life of 31 min, and mean values of 276 (49) ng/mL after approx. 24 hours. After 96 hours, the subjects displayed a mean (SD) IgF-1 concentration of 196 (41) ng/mL, comparable to the predose value.

12.3 Pharmacokinetics

Absorption — Somatropin has been studied following subcutaneous and intravenous administration in healthy subjects and GHD patients. A single dose administration of 4 mg NOR-DITROPIN® in healthy subjects (n=26) with suppressed endogenous growth hormone resulted in a mean (SD) t1/2 of 34.9 (10.4) ng/mL after approximately 3.0 hours. After a 180-min IV infusion of NOR-DITROPIN® (33 ng/kg/min) administered to GHD patients (n=9), a mean (SD) hGH steady state serum level of approximately 23.1 (15.0) ng/mL was reached at 150 min.

After a SC dose of 0.024 mg/kg or 3 IU/ml given in the thigh to adult GHD patients (n=16), mean (SD) t1/2 of 13.6 (5.8) and 17.1 (10.0) ng/mL were observed for the 4 and 8 mg NOR-DITROPIN® vials, respectively, at approximately 4 to 5 hr, post dose. The absolute bioavailability for NOR-DITROPIN® after the SC route of administration is currently unknown.

Distribution — The mean (SD) apparent volume of distribution of somatropin after single dose subcutaneous administration of 4 mg NOR-DITROPIN® in healthy subjects is 43.9 (14.9) L.

Elimination
Metabolism — Extensive metabolic studies have not been conducted. The metabolic fate of somatropin involves classical protein catabolism in both the liver and kidneys.

Excretion — The mean apparent terminal t1/2 values in healthy adult subjects (n=26) was 2.0 (0.5) hours. In GHD patients receiving 180-min IV infusion of NOR-DITROPIN® (33 ng/kg/min), a mean clearance rate of approximately 2.3 (1.8) mL/min/kg or 139 (105) mL/min for hGH was observed. Following infusion, serum hGH levels had a biexponential decay with a terminal elimination half-life (t1/2) of approximately 21.1 (6.5) min. The mean (SD) apparent terminal t1/2 values in GHD patients receiving a SC dose of 0.024 mg/kg or 3 IU/L was estimated to be approximately 7 to 10 hr. The longer half-life observed after subcutaneous administration is due to slow absorption from the injection site. Urinary excretion of intact somatropin has not been measured.

Geriatric patients — The pharmacokinetics of somatropin have not been studied in patients greater than 65 years of age.

Pediatric patients — The pharmacokinetics of somatropin in pediatric patients are similar to those of adults.

Male and Female Patients — No gender-specific pharmacokinetic studies have been performed with somatropin. The available literature indicates that the pharmacokinetics of somatropin are similar in men and women.

Patients with Renal or Hepatic Impairment — No studies have been performed with somatropin.

13 NONCLINICAL TOXICOLOGY
13.1 Carcinogenesis and Mutagenesis
Carcinogenicity and mutagenicity studies have not been conducted with NOR-DITROPIN®.

Impairment of Fertility
In a rat study evaluating female fertility, animals were administered once daily subcutaneous doses of 0.1, 0.3, and 1.1 mg/kg NOR-DITROPIN® beginning two weeks prior to mating, throughout mating and during the first 7 days of pregnancy. Delays in the time to mating were observed at doses greater than or equal to 0.3 mg/kg (approximately 3 times the maximum adult clinical dose). The specific effect was based on body surface area, but these doses were also associated with increases in the number of corpora lutea and implantations. A decrease in the pregnancy rate was observed at the dose of 1.1 mg/kg (approximately 10 times the maximum dose of 0.016 mg/kg, based on body surface area). Male fertility parameters have not been evaluated with administration of NOR-DITROPIN®.

14 CLINICAL STUDIES
14.1 Growth Failure due to Inadequate Secretion of Endogenous Growth Hormone

The efficacy and safety of NOR-DITROPIN® was assessed in a multicenter, prospective randomized, open label, dose response study with three doses (0.025, 0.05 and 0.1 mg/kg/day). A total of 111 pediatric patients with GH deficiency were randomized to each dose; 37/0.025 mg/kg/day; 38/0.05 mg/kg/day; 36/0.1 mg/kg/day). Patients met the following entry criteria: chronologic age >3 years with a skeletal age <10 years if male and <8 years if female; pubertal stage = stage 1; previously untreated GH deficiency; peak plasma hormone concentration <7 ng/ml or <10 ng/ml (depending on assay used) in two tests.

The results are displayed in Table 4. The adjusted mean increases in HSDS over the 2-year period were 0.01, 15.7 and 1.73 in the 0.025, 0.05 and 0.1 mg/kg/day dose groups, respectively. There was no significant difference in ΔHSDS between the 0.05 and 0.1 mg/kg/day treatment groups. Height velocity (HV, cm/year) and HVS increased considerably after initiation of treatment, with the greatest response observed during the first year of treatment.

14.2 Short Stature Associated with Noonan Syndrome
A prospective, open label, randomized, parallel group study with 21 pediatric patients was conducted for 2 years to evaluate the efficacy and safety of NOR-DITROPIN®. Additional 6 children were not randomized, but did follow the protocol. The mean (SD) final height gain of 4.5, 9.1 and 9.4 cm after treatment with Doses A, B and C, respectively for the two escalated dose groups reached normal final height. The mean change from baseline to final height in HSDS (Turner standards) in Table 5 correspond to mean height gains of 4.5, 9.1 and 9.4 cm after treatment with Doses A, B and C, respectively. In each treatment group, peak HV was observed during treatment Year 1, and then gradually decreased each year, during Year 4, HV was less than the pre-treatment HV. However, between Year 2 and Year 6, a greater HV was observed in the two dose escalation groups compared to the 0.045 mg/kg/day group.

14.3 Short Stature Associated with Turner Syndrome
Two randomized, parallel group, open label, multicenter studies were conducted in the Netherlands to evaluate the efficacy and safety of NOR-DITROPIN®. Patients were treated to final height in both studies [height velocity (HV) < 2 cm/year]. Changes in height were expressed as standard deviation scores (SDS) utilizing reference data for untreated Turner syndrome patients as well as the national Dutch population.

In Study 1, 75 euthyroid Caucasian patients stratified based on age and baseline height SDS were randomized in a 1:1:1 ratio to three different NOR-DITROPIN® treatment regimens: 0.045 mg/kg/day (Dose A) for the entire study, 0.045 mg/kg/day for the first year and 0.067 mg/kg/day thereafter (Dose B); or 0.045 mg/kg/day for the first year, 0.067 for the second year, and 0.089 mg/kg/day thereafter (Dose C). At baseline, mean age was 6.5 years, mean height SDS (National standard) was -2.7, and mean HV during the previous year was 6.5 cm/year. Patients also received estrogen therapy after age 12 and following treatment with Dose A utilizing the both the National and Turner standards. The mean change from baseline to final height in height SDS (Turner standard) in Table 5 correspond to mean height gains of 4.5, 9.1 and 9.4 cm after treatment with Doses A, B and C, respectively. In each treatment group, peak HV was observed during treatment Year 1, and then gradually decreased each year, during Year 4, HV was less than the pre-treatment HV. However, between Year 2 and Year 6, a greater HV was observed in the two dose escalation groups compared to the 0.045 mg/kg/day group.
were within the normal range of their healthy peers (Dutch national reference). For both doses combined, actual mean final height was 171 (SD 6.1) cm in boys and 159 (SD 4.3) cm in girls. As seen in Table 6, for boys and girls combined, both mean final height SDS, and increase in height SDS from baseline to final height were significantly greater after treatment with Dose B (0.067 mg/kg/day). A similar dose response was observed for the increase in height SDS from baseline to Year 2 (Table 6).

Overall mean height velocity at baseline was 5.4 cm/year (SD 1.2, n=29). Height velocity was greatest during the first year of NORDITROPIN® treatment and was significantly greater after treatment with Dose B (mean 11.1 cm/year; SD 1.9, n=19) compared with Dose A (mean 7.9 cm/year; SD 1.3, n=10).

### Table 6 – Study 1: Results for Final Height SDS and Change from Baseline to Final Height SDS Using National Standard After Long-Term Treatment of SGA Children with NORDITROPIN®

<table>
<thead>
<tr>
<th>Dose A</th>
<th>Dose B</th>
<th>Dose C</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.033 mg/kg/day</td>
<td>0.067 mg/kg/day</td>
<td>0.00 mg/kg/day</td>
<td>0.033 mg/kg/day</td>
</tr>
<tr>
<td>Baseline Height SDS</td>
<td>1.4 (0.21)</td>
<td>1.8 (0.21)</td>
<td>1.6 (0.22)</td>
</tr>
<tr>
<td>Final Height SDS</td>
<td>1.4 (0.21)</td>
<td>1.8 (0.21)</td>
<td>1.6 (0.22)</td>
</tr>
<tr>
<td>Height SDS Change from Baseline at Year 2</td>
<td>0.4 (0.27)</td>
<td>0.0 (0.27)</td>
<td>0.4 (0.27)</td>
</tr>
<tr>
<td>Treatment Diff</td>
<td>0.067 vs. 0.033: Treatment Diff = 0.3, [0.0, 0.6]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Adjusted least-squares mean ± standard error (N), Treatment Diff [95% confidence intervals]**

### Table 7 – Study 2: Results for Change from Baseline in Height SDS At Year 1 and Year 2 Using National Standard After Short-Term Treatment of SGA Children with NORDITROPIN®

<table>
<thead>
<tr>
<th>Year</th>
<th>Height SDS Change from Baseline</th>
<th>Treatment Diff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>0.067 vs. 0.033: Treatment Diff = 0.3, [0.0, 0.6]</td>
<td></td>
</tr>
<tr>
<td>Year 2</td>
<td>0.067 vs. 0.033: Treatment Diff = 0.6, [0.5, 0.8], p-value &lt; 0.0001</td>
<td></td>
</tr>
</tbody>
</table>

**SDS: Standard deviation score.**

### 14.5 Idiopathic Short Stature (ISS)

The efficacy and safety of another somatropin product was evaluated in 105 patients who were retrospectively identified as having ISS in a randomized, open-label, clinical study. Patients were enrolled on the basis of short stature, stimulated GH secretion > 10 ng/mL, and prepubertal status. All patients were observed for height progression for 12 months and were subsequently randomized to this other somatropin product or observation only and followed to final height. Two doses of this other somatropin product were evaluated in this trial: 0.23 mg/ week (0.033 mg/kg/day) and 0.47 mg/week (0.067 mg/kg/day). Baseline patient characteristics for the ISS patients who remained prepubertal at randomization (n= 105) were: mean (±SD): chronological age 11.4 (1.3) years, height SDS -2.4 (0.4), height velocity SDS -1.1 (0.8), and height velocity 4.4 (0.9) cm/yr. IGF-1 SDS -0.8 (1.4). Patients were treated for a median duration of 5.7 years. Results for final height SDS are displayed by treatment arm in Table 8. The observed mean gain in final height was 9.8 cm for females and 5.0 cm for males for both doses combined compared to untreated control subjects. A gain in SDS was observed in 10% of untreated subjects, 50% of subjects receiving 0.23 mg/kg/week and 69% of subjects receiving 0.47 mg/kg/week.

### Table 8 – Final height SDS results for pre-pubertal patients with ISS*

<table>
<thead>
<tr>
<th>Another Somatropin Product</th>
<th>Untreated (n=30)</th>
<th>0.033 mg/kg/day (n=30)</th>
<th>0.067 mg/kg/day (n=42)</th>
<th>0.033 vs Untreated (95% CI)</th>
<th>0.067 vs Untreated (95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline height SDS</td>
<td>0.41 (0.56)</td>
<td>0.95 (0.75)</td>
<td>1.36 (0.64)</td>
<td>+0.53 (0.20, 0.87)**</td>
<td>+0.94 (0.63, 1.26)**</td>
</tr>
<tr>
<td>Final height SDS</td>
<td>0.23 (0.66)</td>
<td>0.73 (0.63)</td>
<td>1.05 (0.83)</td>
<td>+0.60 (0.09, 1.11)**</td>
<td>+0.90 (0.42, 1.39)**</td>
</tr>
</tbody>
</table>

**Least square means based on ANCOVA (final height SDS and final height SDS minus baseline predicted height SDS were adjusted for baseline height SDS).**

*Mean (SD) are observed values

**p<0.05
14.6 Growth Failure Due to Prader-Willi Syndrome (PWS)

The safety and efficacy of another somatropin product were evaluated in two randomized, open-label, controlled clinical studies. Patients received either this other somatropin product or no treatment for the first year of the studies, while all patients received this other somatropin product during the second year. This other somatropin product was administered as a daily SC injection, and the dose was calculated for each patient every 3 months. In Study 1, the treatment group received this other somatropin product at a dose of 0.24 mg/kg/week during the entire study. During the second year, the control group received this other somatropin product at a dose of 0.48 mg/kg/week. In Study 2, the treatment group received this other somatropin product at a dose of 0.36 mg/kg/week during the entire study. During the second year, the control group received this other somatropin product at a dose of 0.36 mg/kg/week. The results are presented in Table 9. Linear growth continued to increase in the second year, when both groups received treatment with this other somatropin product.

Table 9 – Efficacy of Another Somatropin Product in Pediatric Patients with Prader-Willi Syndrome (Mean ± SD)

<table>
<thead>
<tr>
<th>Linear growth (cm)</th>
<th>Study 1</th>
<th>Study 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline height</td>
<td>112.7 ± 14.9</td>
<td>109.5 ± 12.0</td>
</tr>
<tr>
<td>Growth from 0 to 12 months</td>
<td>11.6 ± 2.3</td>
<td>10.7 ± 2.3</td>
</tr>
<tr>
<td>Baseline SDS</td>
<td>-1.6 ± 1.3</td>
<td>-1.8 ± 1.5</td>
</tr>
<tr>
<td>SDS at 12 months</td>
<td>-0.5 ± 1.3</td>
<td>-1.9 ± 1.4</td>
</tr>
</tbody>
</table>

*p < 0.05

14.7 Adults with Growth Hormone Deficiency (GHD)

A total of six randomized, double-blind, placebo-controlled studies were performed. Two representative studies, one in adult onset (AO) GHD patients and a second in childhood onset (CO) GHD patients, are described below.

Study 1

A single center, randomized, double-blind, placebo-controlled, parallel-group, six-month clinical trial was conducted in 31 adults with AO GHD comparing the effects of NORDITROPIN® (somatropin) injection and placebo on body composition. Patients in the active treatment arm were treated with NORDITROPIN® 0.017 mg/kg/day (not to exceed 1.33 mg/day). The changes from baseline in lean body mass (LBM) and percent total body fat (TBF) were measured by total body potassium (TBP) after 6 months. Treatment with NORDITROPIN® produced a significant increase from baseline in LBM compared to placebo (Table 10).

Table 10 – Lean Body Mass (kg) by TBP

<table>
<thead>
<tr>
<th>Linear growth (cm)</th>
<th>Study 1</th>
<th>Study 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline (mean)</td>
<td>50.27</td>
<td>51.72</td>
</tr>
<tr>
<td>Change from baseline at 6 months (mean)</td>
<td>1.12</td>
<td>-0.63</td>
</tr>
<tr>
<td>Treatment difference (mean)</td>
<td>1.74</td>
<td>(-0.65, 2.63)</td>
</tr>
<tr>
<td>95% confidence interval p-value</td>
<td>0.0028*</td>
<td></td>
</tr>
</tbody>
</table>

*Least square mean based on an ANCOVA model including treatment and sex as factors
Analysis of the treatment difference on the change from baseline in percent TBF revealed a significant decrease in the NORDITROPIN-treated group compared to the placebo group (Table 11).

Table 11 – Total Body Fat (%) by TBP

<table>
<thead>
<tr>
<th>Linear growth (cm)</th>
<th>Study 1</th>
<th>Study 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline (mean)</td>
<td>44.74</td>
<td>42.26</td>
</tr>
<tr>
<td>Change from baseline at 6 months (mean)</td>
<td>-2.83</td>
<td>1.92</td>
</tr>
<tr>
<td>Treatment difference (mean)</td>
<td>-4.74</td>
<td>(-7.18, -2.30)</td>
</tr>
<tr>
<td>95% confidence interval p-value</td>
<td>0.0004*</td>
<td></td>
</tr>
</tbody>
</table>

*Least square mean based on an ANCOVA model including treatment and sex as factors
NORDITROPIN® also significantly increased serum osteocalcin (a marker of osteoblastic activity).

Study 2

A single center, randomized, double-blind, placebo-controlled, parallel-group, dose-finding, six-month clinical trial was conducted in 49 men with CO GHD comparing the effects of NORDITROPIN® and placebo on body composition. Patients were randomized to placebo or one of three active treatment groups (0.008, 0.016, and 0.024 mg/kg/day). Thirty percent of the total dose to which each patient was randomized was administered during weeks 1-4, 67% during weeks 5-8, and 100% for the remainder of the study. The changes from baseline in LBM and percent TBF were measured by TBP after 6 months. Treatment with NORDITROPIN® produced a significant increase from baseline in LBM compared to placebo (pooled data) (Table 12).

Table 12 – Lean Body Mass (kg) by TBP

<table>
<thead>
<tr>
<th>Linear growth (cm)</th>
<th>NORDITROPIN® (n=36)</th>
<th>Placebo (n=13)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline (mean)</td>
<td>48.18</td>
<td>48.90</td>
</tr>
<tr>
<td>Change from baseline at 6 months (mean)</td>
<td>2.06</td>
<td>0.70</td>
</tr>
<tr>
<td>Treatment difference (mean)</td>
<td>1.40</td>
<td>(0.39, 2.41)</td>
</tr>
<tr>
<td>95% confidence interval p-value</td>
<td>p=0.0079*</td>
<td></td>
</tr>
</tbody>
</table>

*Least square mean based on an ANOVA model including treatment as a factor
Analysis of the treatment difference on the change from baseline in percent TBF revealed a significant decrease in the NORDITROPIN®-treated groups (pooled data) compared to the placebo group (Table 13).

Table 13 – Total Body Fat (%) by TBP

<table>
<thead>
<tr>
<th>Linear growth (cm)</th>
<th>NORDITROPIN® (n=36)</th>
<th>Placebo (n=13)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline (mean)</td>
<td>34.55</td>
<td>34.07</td>
</tr>
<tr>
<td>Change from baseline at 6 months (mean)</td>
<td>-6.00</td>
<td>-1.78</td>
</tr>
<tr>
<td>Treatment difference (mean)</td>
<td>-4.24</td>
<td>(-7.11, -1.37)</td>
</tr>
<tr>
<td>95% confidence interval p-value</td>
<td>p=0.0048*</td>
<td></td>
</tr>
</tbody>
</table>

*Least square mean based on an ANOVA model including treatment as a factor

16 HOW SUPPLIED/STORAGE AND HANDLING

NORDITROPIN® injection is a clear and colorless solution available as FlexPro® prefilled pens:
- NORDITROPIN® FlexPro® 5 mg/1.5 mL (orange) NDC 0169-7704-21
- NORDITROPIN® FlexPro® 10 mg/1.5 mL (blue) NDC 0169-7705-21
- NORDITROPIN® FlexPro® 15 mg/1.5 mL (green) NDC 0169-7708-21
- NORDITROPIN® FlexPro® 30 mg/3 mL (purple) NDC 0169-7710-21

Each NORDITROPIN® FlexPro® pen is for use by a single patient. A NORDITROPIN® FlexPro® pen must never be shared between patients, even if the needle is changed. Unused NORDITROPIN® FlexPro® prefilled pens must be stored at 2°C to 8°C/36°F to 46°F (refrigerator). Do not freeze. Avoid direct light.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information and Instructions for Use).
- Neoplasms – Advise childhood cancer survivors/caregivers that individuals treated with brain/head radiation are at increased risk of secondary neoplasms and as a precaution need to be monitored for recurrence. Advise patients/caregivers to report marked changes in behavior, onset of headaches, vision disturbances and/or changes in skin pigmentation or changes in the appearance of pre-existing nevi.
- Fluid Retention – Advise patients that fluid retention during NORDITROPIN® replacement therapy in adults may frequently occur. Inform patients of the clinical manifestations of fluid retention (e.g. edema, arthralgia, myalgia, nerve compression syndromes including carpal tunnel syndrome/paresthesias) and to report to their healthcare provider any of these signs or symptoms occur during treatment with NORDITROPIN®.
- Pancreatitis – Advise patients/caregivers that pancreatitis may develop and to report to their healthcare provider any new onset abdominal pain.
- Hypoadrenalism – Advise patients/caregivers who have or who are at risk for pituitary hormone deficiency(s) that hypoadrenalism may develop and to report to their healthcare provider if they experience hyperpigmentation, extreme fatigue, dizziness, weakness, or weight loss.
- Hypothyroidism – Advise patients/caregivers that undiagnosed/untreated hypothyroidism may prevent an optimal response to NORDITROPIN®. Advise patients/ caregivers they may require periodic thyroid function tests.
- Intracranial Hypertension – Advise patients/caregivers to report to their healthcare provider any visual changes, headache, and nausea and/or vomiting.
- Hypersensitivity Reactions – Advise patients/caregivers that serious systemic hypersensitivity reactions (anaphylaxis and angioedema) are possible and that prompt medical attention should be sought if an allergic reaction occurs.
- Glucose Intolerance/Diabetes Mellitus – Advise patients/caregivers that new onset impaired glucose intolerance/diabetes mellitus or exacerbation of preexisting diabetes mellitus can occur and monitoring of blood glucose during treatment with NORDITROPIN® may be needed.
**PATIENT INFORMATION**

**NORDITROPIN® (Nor-dee-tro-pin)**

**(somatropin) injection for subcutaneous use**

What is NORDITROPIN®?

NORDITROPIN® is a prescription medicine that contains human growth hormone, the same growth hormone made by the human body.

NORDITROPIN® is given by injection under the skin (subcutaneous) and is used to treat:

- children who are not growing because of low or no growth hormone.
- children who are short (in stature) and who have Noonan syndrome, Turner syndrome, or were born small (small for gestational age-SGA) and have not caught-up in growth by age 2 to 4 years.
- children who have idiopathic Short Stature (ISS).
- children who are not growing who have Prader-Willi syndrome (PWS).
- adults who do not make enough growth hormone.

Do not use NORDITROPIN® if:

- you have a critical illness caused by certain types of heart or stomach surgery, trauma or breathing (respiratory) problems.
- you are a child with Prader-Willi syndrome who is severely obese or has breathing problems including sleep apnea (briefly stop breathing during sleep).
- you have cancer or other tumors.
- you are allergic to somatropin or any of the ingredients in NORDITROPIN®. See the end of this leaflet for a complete list of ingredients in NORDITROPIN®.
- your healthcare provider tells you that you have certain types of eye problems caused by diabetes (diabetic retinopathy).
- you are a child with closed bone growth plates (epiphyses).

Before taking NORDITROPIN®, tell your healthcare provider about all of your medical conditions, including:

- have had heart or stomach surgery, trauma or serious breathing (respiratory) problems.
- have had a history of problems breathing while you sleep (sleep apnea).
- have or had cancer or any tumor.
- have diabetes.
- are pregnant or plan to become pregnant. It is not known if NORDITROPIN® will harm your unborn baby. Talk to your healthcare provider if you are pregnant or plan to become pregnant.
- are breastfeeding or plan to breastfeed. It is not known if NORDITROPIN® passes into your breast milk. You and your healthcare provider should decide if you will take NORDITROPIN® while you breastfeed.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. NORDITROPIN® may affect how other medicines work, and other medicines may affect how NORDITROPIN® works.

How should I use NORDITROPIN®?

- Read the detailed Instructions for Use that come with NORDITROPIN®.
- NORDITROPIN® comes in 4 different dosage strengths. Your healthcare provider will prescribe the dose that is right for you.
- Your healthcare provider will show you how to inject NORDITROPIN®.
- Use NORDITROPIN® exactly as your healthcare provider tells you to.
- NORDITROPIN® FlexPro® pens are for use by 1 person only.
- Do not share your NORDITROPIN® pens and needles with another person, even if the needle has been changed. You may give another person an infection or get an infection from them.

What are the possible side effects of NORDITROPIN®?

NORDITROPIN® may cause serious side effects, including:

- high risk of death in people who have critical illnesses because of heart or stomach surgery, trauma or serious breathing (respiratory) problems.
- high risk of sudden death in children with Prader-Willi syndrome who are severely obese or have breathing problems, including sleep apnea.
- increased risk of growth of a cancer or a tumor that is already present and increased risk of the return of cancer or a tumor in people who were treated with radiation to the brain or head as children and who developed low growth hormone problems. Your or your child's healthcare provider will need to monitor you or your child for a return of cancer or a tumor. Contact the healthcare provider if you or your child starts to have headaches, or have changes in behavior, changes in vision, or changes in moles, birthmarks, or the color of your skin.
- new or worsening high blood sugar (hyperglycemia) or diabetes. Your or your child's blood sugar may need to be monitored during treatment with NORDITROPIN®.
- increase in pressure in the skull (intracranial hypertension). If you or your child has headaches, eye problems, nausea or vomiting, contact the healthcare provider.

- serious allergic reactions. Get medical help right away if you or your child has the following symptoms:
  - swelling of your face, lips, mouth, or tongue
  - trouble breathing
  - wheezing
  - severe itching
  - skin rashes, redness, or swelling
  - dizziness or fainting
  - fast heartbeat or pounding in your chest
  - sweating
- your body holding too much fluid (fluid retention) such as swelling in the hands and feet, pain in your joints or muscles or nerve problems that cause pain, burning or tingling in the hands, arms, legs and feet. Fluid retention can happen in adults during treatment with NORDITROPIN®. Tell your healthcare provider if you have any of these signs or symptoms of fluid retention.
- decrease in a hormone called cortisol. The healthcare provider will do blood tests to check your or your child's cortisol levels. Tell your or your child's healthcare provider if you or your child has darkening of the skin, severe fatigue, dizziness, weakness, or weight loss.
- decrease in thyroid hormone levels. Decreased thyroid hormone levels may affect how well NORDITROPIN® works. The healthcare provider will do blood tests to check your or your child's thyroid hormone levels.
- hip and knee pain or a limp in children (slipped capital femoral epiphysis)
- worsening of curvature of the spine (scoliosis)
- severe and constant abdominal pain. This could be a sign of pancreatitis. Tell your or your child's healthcare provider if you or your child has any new abdominal pain.
- loss of fat and tissue weakness in the area of skin you inject. Talk to your healthcare provider about rotating the areas where you inject NORDITROPIN®.
- increase in phosphorus, alkaline phosphatase and parathyroid hormone levels in your blood. Your or your child's healthcare provider will do blood tests to check this.

The most common side effects of NORDITROPIN® include:

- injection site reactions and rashes
- headaches
- These are not all the possible side effects of NORDITROPIN®.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088. You may also report side effects to Novo Nordisk at 1-888-668-6444.

How should I store NORDITROPIN®?

- Before you use NORDITROPIN® FlexPro® pens for the first time:
  - Store your new, unused NORDITROPIN® pen in a refrigerator between 36°F to 46°F (2°C to 8°C).
  - Do not freeze NORDITROPIN®.
  - Keep NORDITROPIN® away from direct light.
  - Do not use NORDITROPIN® that has been frozen or in temperatures warmer than 77°F (25°C).

- After you use NORDITROPIN® FlexPro® pens and there is still medicine left:
  - Store remaining NORDITROPIN® in the refrigerator between 36°F to 46°F (2°C to 8°C) and use within 4 weeks, or
  - Store remaining NORDITROPIN® at room temperature no warmer than 77°F (25°C) and use within 3 weeks.

Keep NORDITROPIN® and all medicines out of the reach of children.

General information about the safe and effective use of NORDITROPIN®.

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

What are the ingredients in NORDITROPIN®?

Active ingredient: somatropin

Inactive ingredients: Histidine, Poloxamer 188, Phenol, Mannitol, HCl/NaOH (as needed) and Water for Injection

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

This Patient Information has been approved by the U.S. Food and Drug Administration. Revised: 2/2018

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US20NORD00019   April 2020
**Norditropin® FlexPro® (Nor-dee-tro-pin) (somatropin) injection**

5 mg/1.5 mL

**INSTRUCTIONS FOR USE**

**Overview Norditropin® FlexPro® Pen**

![Diagram of Norditropin FlexPro Pen]

**Supplies you will need:**
- Norditropin® FlexPro® prefilled Pen new injection needle.
- Norditropin® prefilled Pen is designed to be used with all Novo Nordisk disposable needles up to a length of 8 mm.
- sharps disposal container. See step 5 for information on how to throw away (dispose of) used needles and Pens.
- alcohol pad
- gauze pad

**How to use your Norditropin® FlexPro® Pen**

5 steps you should follow for a Norditropin® injection:

1. Prepare your Norditropin® FlexPro® Pen
2. Check the Norditropin® flow with each new Pen
3. Select your dose
4. Inject your dose
5. After your injection

For further information about your Pen see:
- Frequently Asked Questions
- Important information
- Patient Information

**Important information**
Make sure that you read this information carefully.

**Additional information**
Norditropin® is for use under the skin only (subcutaneous).

Do not share your Norditropin® Pen and needles with another person. You may give another person an infection or get an infection from them.

Do not use your Pen without proper training from your healthcare provider. Make sure that you are confident in giving an injection with the Pen before you start your treatment. If you are blind or have poor eyesight and cannot read the dose counter on the Pen, do not use this Pen without help. Get help from a person with good eyesight who is trained to use the Pen.

**Step 1. Prepare your Norditropin® FlexPro® Pen**

- Wash your hands with soap and water.
- Check the name, strength, and colored label on your Pen to make sure that it contains Norditropin® in the right strength.
- Pull off the Pen cap.
- Turn the Pen upside down 1 or 2 times to check that the Norditropin® in your Pen is clear and colorless. See figure A. If the Norditropin® looks cloudy, do not use the Pen.

- When you are ready to give your injection, take a new disposable needle, and remove the paper tab.
- Push the needle straight onto the Pen. Turn the needle clockwise until it is on tight. See figure B.

**Step 2. Check the Norditropin® flow with each new Pen**

Always use a new needle for each injection. This reduces the risk of contamination, infection, leakage of Norditropin®, and blocked needles leading to incorrect dosing.

- Pull off the outer needle cap and dispose of it. See figure C.

**Step 3. Select your dose**

- Pull off the inner needle cap and dispose of it. See figure D.

**Step 4. Inject your dose**

- Never use a bent or damaged needle.

**Step 5. After your injection**

- Hold the Pen with the needle pointing up. Press and hold in the dose counter until the dose counter returns to “0”. The “0” must line up with the dose pointer. See figure G.
- Check that a drop of Norditropin® appears at the needle tip. See figure H.
- If no Norditropin® appears, repeat step 2 up to 6 times.
- If you still do not see a drop of Norditropin®, change the needle:
  - Carefully remove the needle from the Pen by turning the needle counterclockwise. Place the needle in a sharps disposal container immediately. See step 5.
  - and repeat step 2 again.
- Do not use the Pen if a drop of Norditropin® still does not appear after changing the needle and repeating step 2. Call Novo Nordisk at 1-888-668-6444 for help.

**Step 3. Select your dose**

- To start, check that the dose pointer is set at “0”.
- Turn the dose selector clockwise to select the dose you need. See figure I.
- When you have selected your dose, you can go to step 4.
- If there is not enough Norditropin® left to select a full dose, see Frequently Asked Questions.

The dose counter shows the dose in “mg”. See figures J and K. Always use the dose counter to select the exact dose. Do not use the “click” sounds you hear when you turn the dose selector or the Pen scale to select your dose. Only the dose pointer on the dose counter will show the exact dose selected.

**Step 2. Check the Norditropin® flow with each new Pen**

If your Pen is already in use, go to step 3.

Before using a new Pen, check the Norditropin® flow to make sure the growth hormone can flow through the Pen and needle.

- Turn the dose selector clockwise 1 tick marking on the dose counter to select 0.025 mg. You will hear a faint “click” when you turn the dose selector. See figure E.

- 1 marking on the dose counter equals 0.025 mg. See figure F.

- If you select the wrong dose, you can turn the dose selector clockwise or counterclockwise to the correct dose. See figure L.
  - The Pen “clicks” sound and feel differently when the dose selector is turned clockwise, counterclockwise, or if you forcefully move it past the number of “mg” left in the Pen.
Step 4. Inject your dose

• Select the injection site.
• Norditropin® can be injected under the skin (subcutaneously) of your stomach area (abdomen), buttocks, upper legs (thighs), or upper arms, as instructed by your healthcare provider. Change the injection site every day.
• Wipe the injection site with an alcohol swab and let the area dry.
• Insert the needle into your skin as your healthcare provider has shown you. See figure M.

Make sure you can see the dose counter. Do not cover it with your fingers. This could block the injection.

• Press and hold down the dose button until the dose counter shows “0”. See figure N. The “0” must line up with the dose pointer. You may then hear or feel a “click”.
• Continue to hold the needle in your skin.
  ① If “0” does not appear in the dose counter after continuously pressing the dose button, your needle may be blocked or damaged, see Frequently Asked Questions.
• Keep the needle in your skin after the dose counter has returned to “0”. Count slowly to 6 to ensure that the full dose has been delivered. See figure O.
  ② You may see a drop of Norditropin® at the needle tip after injecting. This is normal and does not affect your dose.

Step 5. After your injection

• Carefully remove the needle from your skin. See figure P. If blood appears at the injection site, press lightly with a gauge pad. Do not rub the area.
  ① You may see a drop of Norditropin® at the needle tip after injecting. This is normal and does not affect your dose.
• Place the needle in a sharps disposal container immediately to reduce the risk of a needle stick. See figure Q.
  ② Always dispose of the needle after each injection.

For further information about safe sharps disposal, see Frequently Asked Questions.

Always remove the needle from your Pen. This reduces the risk of contamination, infection, leakage of Norditropin®, and blocked needles leading to incorrect dosing.

How should I store Norditropin®?

• Before you use Norditropin® FlexPro® pens for the first time:
  – Store your new, unused Norditropin® pen in a refrigerator between 36ºF to 46ºF (2ºC to 8ºC).
  – Do not freeze Norditropin®.
  – Keep Norditropin® away from direct light.
  – Do not use Norditropin® that has been frozen or in temperatures warmer than 77ºF (25ºC).
  – Do not use Norditropin® after the expiration date printed on the carton and the pen.
• After you use Norditropin® FlexPro® pens and there is still medicine left:
  – Store remaining Norditropin® in the refrigerator between 36ºF to 46ºF (2ºC to 8ºC) and use within 4 weeks, or
  – Store remaining Norditropin® at room temperature no warmer than 77ºF (25ºC) and use within 3 weeks.

Keep Norditropin® and all medicines out of the reach of children.

Frequently Asked Questions

How do I see how much Norditropin® is left in my Pen?

The Pen scale shows you approximately how much Norditropin® is left in your Pen. See figure T below.

To see how much Norditropin® is left in your Pen, use the dose counter:
  – Turn the dose selector clockwise until the dose counter stops. The dose pointer will line up with the number of “mg” left in the Pen. You can select a maximum dose of 2.0 mg. If the dose counter stops with the dose pointer lined up with “2.0”, at least 2.0 mg are left in your Pen.
  – If the dose counter stops with the dose pointer lined up with “1.25”, only 1.25 mg are left in your Pen. See figure U below.

What if I need a larger dose than what is left in my Pen?

It is not possible to select a larger dose on the dose counter than the number of “mg” left in your Pen.

If you need more Norditropin® than you have left in your Pen, you can use a new Pen or split your dose between your current Pen and a new Pen. Only split your dose if you have been trained or advised by your healthcare provider on how to do this. You may find it helpful to use a calculator to plan the doses as instructed by your healthcare provider.

Be very careful to calculate your split dose correctly so that you do not give the wrong dose. If you are not sure how to split your dose using two Pens, then select and inject the dose you need with a new Pen.

What if no Norditropin® appears when I check the flow?

A. Your needle may be blocked or damaged, if no Norditropin® appears at the needle tip. Remove the needle as described in step 5 and repeat steps 1 and 2.
B. Your Pen may be defective, if Norditropin® still does not appear after changing the needle. Do not use the Pen. Contact Norditex Nordic at 1-888-668-6444.

What if “0” does not appear after completing my injection?

The needle may be blocked or damaged, and you have not received any Norditropin® – even though the dose counter has moved from the dose that you have set. Remove the needle as described in step 5 and repeat steps 1 to 4.
If “0” still does not appear after completing the injection, contact Norditex Nordic at 1-888-668-6444.

How should I take care of my Pen?

Be careful not to drop your Pen or knock it against hard surfaces. Do not expose your Pen to dust, dirt, liquid, or direct light.

See “How should I store Norditropin®?”

Do not try to refill your Pen. It is already prefilled. When your Pen is empty, throw it away and use a new Pen.

See “How do I dispose of used needles and Pens?”

Frequently Asked Questions

What if I drop my Pen?

If you drop your Pen or think that something is wrong with it, attach a new disposable needle and check the Norditropin® flow before you inject, see steps 1 and 2. Do not try to repair your Pen or pull it apart.

How do I clean my Pen?

Do not wash, soak, or lubricate your Pen. If necessary, clean it with mild detergent on a moistened cloth.

How do I dispose of used needles and Pens?

Put your used needles in an FDA-cleared sharps disposal container right after use. Do not throw away (dispose of) loose needles in your household trash. If you do not have an FDA-cleared sharps disposal container, you may use a household container that is:
  – made of a heavy-duty plastic,
  – can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,
  – upright and stable during use,
  – leak-resistant, and
  – properly labeled to warn of hazardous waste inside the container.

When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should dispose of used needles and Pens. For more information about safe sharps disposal, and for specific information about safe 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.

When there is not enough medicine left in your Pen for your prescribed dose, the Pen may be thrown away in your household trash after you have removed the needle.

Important information

• Caregivers must be very careful when handling needles to reduce the risk of needle sticks and infection.
• Norditropin® FlexPro® 5 mg/1.5 mL Pen is compatible with FlexPro® PenMate®.
This Instructions for Use has been approved by the U.S. Food and Drug Administration.


Norditropin® and FlexPro® are registered trademarks of Novo Nordisk Health Care AG.

Novo Nordisk® and PenMate® are registered trademarks of Novo Nordisk A/S.

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INSTRUCTIONS FOR USE

Overview Norditropin® FlexPro® Pen

- Pen window
- Pen scale
- Dose counter
- Dose selector
- Pen cap
- Dose pointer
- Dose button

Needle (example)

- Outer needle cap
- Inner needle cap
- Needle
- Paper tab

Supplies you will need:
- Norditropin® FlexPro® prefilled Pen
- New Norditropin
- Needle
- Gauze pad
- Alcohol pad
- Paper towel
- Soap and water

How to use your Norditropin® FlexPro® Pen

5 steps you should follow for a Norditropin® injection:

1. Prepare your Norditropin® FlexPro® Pen
2. Check the Norditropin® flow with each new Pen
3. Select your dose
4. Inject your dose
5. After your injection

For further information about your Pen see:
- Frequently Asked Questions
- Important information
- Patient Information

Important information
Make sure that you read this information carefully.

Additional information
Norditropin® is for use under the skin only (subcutaneous).

Do not share your Norditropin® Pen and needles with another person. You may give another person an infection or get an infection from them.

Do not use your Pen without proper training from your healthcare provider. Make sure that you are confident in giving an injection with the Pen before you start your treatment. If you are blind or have poor eyesight and cannot read the dose counter on the Pen, do not use this Pen without help. Get help from a person with good eyesight who is trained to use the Pen.

Step 1. Prepare your Norditropin® FlexPro® Pen

- Wash your hands with soap and water.
- Check the name, strength, and colored label on your Pen to make sure that it contains Norditropin® in the right strength.
- Pull off the Pen cap.
- Turn the Pen upside down 1 or 2 times to check that the Norditropin® in your Pen is clear and colorless. See figure A. If the Norditropin® looks cloudy, do not use the Pen.

- When you are ready to give your injection, take a new disposable needle, and remove the paper tab.
- Push the needle straight onto the Pen. Turn the needle clockwise until it is on tight. See figure B.

Always use a new needle for each injection.
This reduces the risk of contamination, infection, leakage of Norditropin®, and blocked needles leading to incorrect dosing.

- Pull off the outer needle cap and dispose of it. See figure C.

- Pull off the inner needle cap and dispose of it. See figure D.

- Hold the Pen with the needle pointing up. Press and hold in the dose selector clockwise until the dose counter returns to “0”. The “0” must line up with the dose pointer. See figure E.

- Check that a drop of Norditropin® appears at the needle tip. See figure F.

- If no Norditropin® appears, repeat step 2 up to 6 times. If you still do not see a drop of Norditropin®, change the needle:
  - Carefully remove the needle from the Pen by turning the needle counterclockwise. Place the needle in a sharps disposal container immediately. See step 5.
  - and repeat step 2 again.

Do not use the Pen if a drop of Norditropin® still does not appear after changing the needle and repeating step 2. Call Novo Nordisk at 1-888-668-6444 for help.

Step 3. Select your dose

- To start, check that the dose pointer is set at “0”.
- Turn the dose selector clockwise to select the dose you need. See figure I.
- When you have selected your dose, you can go to step 4.

If there is not enough Norditropin® left to select a full dose, see Frequently Asked Questions.

The dose counter shows the dose in “mg”. See figures J and K. Always use the dose counter to select the exact dose. Do not use the “click” sound you hear when you turn the dose selector or the Pen scale to select your dose. Only the dose pointer on the dose counter will show the exact dose selected.

Step 2. Check the Norditropin® flow with each new Pen

1. If your Pen is already in use, go to step 3.
2. Before using a new Pen, check the Norditropin® flow to make sure the growth hormone can flow through the Pen and needle.
3. Turn the dose selector clockwise 1 tick marking on the dose counter to select 0.05 mg. You will hear a faint “click” when you turn the dose selector. See figure E.

1 marking on the dose counter equals 0.05 mg. See figure F.

- If you select the wrong dose, you can turn the dose selector clockwise or counterclockwise to the correct dose. See figure L.
  - The Pen “clicks” sound and feel differently when the dose selector is turned clockwise, counterclockwise, or if you forcefully move it past the number of “mg” left in the Pen.
Step 4. Inject your dose

- Select the injection site.
- Norditropin® can be injected under the skin (subcutaneously) of your stomach area (abdomen), buttocks, upper legs (thighs), or upper arms, as instructed by your healthcare provider. Change the injection site every day.
- Wipe the injection site with an alcohol swab and let the area dry.
- Insert the needle into your skin as your healthcare provider has shown you. See figure M. Make sure you can see the dose counter. Do not cover it with your fingers. This could block the injection.
- Press and hold down the dose button until the dose counter shows “0”. See figure N. The “0” must line up with the dose pointer. You may then hear or feel a “click”.
- Continue to hold the needle in your skin. If “0” does not appear in the dose counter after continuously pressing the dose button, your needle may be blocked or damaged; see Frequently Asked Questions.
- Keep the needle in your skin after the dose counter has returned to “0”. Count slowly to 6 to ensure that the full dose has been delivered. See figure O.
- Carefully remove the needle from your skin. See figure P. If blood appears at the injection site, press lightly with a gauge pad. Do not rub the area. You may see a drop of Norditropin® at the needle tip after injecting. This is normal and does not affect your dose.

Step 5. After your injection

- Carefully remove the needle from the Pen by turning the needle counterclockwise. See figure Q.
- Place the needle in a sharps disposal container immediately to reduce the risk of a needle stick. See figure R. Always dispose of the needle after each injection. For further information about safe sharps disposal, see Frequently Asked Questions.
- Put the Pen cap on your Pen after each use to protect the Norditropin® from direct light. See figure S. See “How should I store Norditropin®?”.

△ Always remove the needle from your Pen. This reduces the risk of contamination, infection, leakage of Norditropin®, and blocked needles leading to incorrect dosing.

How should I store Norditropin®?

- Before you use Norditropin® FlexPro® pens for the first time:
  - Store your new, unused Norditropin® pen in a refrigerator between 36°F to 46°F (2°C to 8°C). Do not freeze Norditropin®.
  - Keep Norditropin® away from direct light.
  - Do not use Norditropin® that has been frozen or in temperatures warmer than 77°F (25°C).
  - Do not use Norditropin® after the expiration date printed on the carton and the pen.
- After you use Norditropin® FlexPro® pens and there is still medicine left:
  - Store remaining Norditropin® in the refrigerator between 36°F to 46°F (2°C to 8°C) and use within 4 weeks, or
  - Store remaining Norditropin® at room temperature no warmer than 77°F (25°C) and use within 3 weeks.

Keep Norditropin® and all medicines out of the reach of children.

Frequently Asked Questions

How do I see how much Norditropin® is left in my Pen?

The Pen scale shows you approximately how much Norditropin® is left in your Pen. See figure T below.

To see how much Norditropin® is left in your Pen, use the dose counter: Turn the dose selector clockwise until the dose counter stops. The dose pointer will line up with the number of “mg” left in the Pen. You can select a maximum dose of 4.0 mg. If the dose counter stops with the dose pointer lined up with “4.0”, at least 4.0 mg are left in your Pen. If the dose counter stops with the dose pointer lined up with “2.4”, only 2.4 mg are left in your Pen. See figure U below.

What if I need a larger dose than what is left in my Pen?

It is not possible to select a larger dose on the dose counter than the number of “mg” left in your Pen.

If you need more Norditropin® than you have left in your Pen, you can use a new Pen or split your dose between your current Pen and a new Pen. Only split your dose if you have been trained or advised by your healthcare provider on how to do this. You may find it helpful to use a calculator to plan the doses as instructed by your healthcare provider.

Be very careful to calculate your split dose correctly so that you do not give the wrong dose. If you are not sure how to split your dose using two Pens, then select and inject the dose you need with a new Pen.

What if no Norditropin® appears when I check the flow?

A. Your needle may be blocked or damaged, if no Norditropin® appears at the needle tip. Remove the needle as described in step 5 and repeat steps 1 and 2.
B. Your Pen may be defective, if Norditropin® still does not appear after changing the needle. Do not use the Pen. Contact Novo Nordisk at 1-888-668-6444.

What if “0” does not appear after completing my injection?

The needle may be blocked or damaged, and you have not received any Norditropin® – even though the dose counter has moved from the dose that you have set. Remove the needle as described in step 5 and repeat steps 1 to 4. If “0” still does not appear after completing the injection, contact Novo Nordisk at 1-888-668-6444.

How should I take care of my Pen?

Be careful not to drop your Pen or knock it against hard surfaces. Do not expose your Pen to dust, dirt, liquid, or direct light. See “How should I store Norditropin®?”.

Do not try to refill your Pen. It is already prefilled. When your Pen is empty, throw it away and use a new Pen. See “How do I dispose of used needles and Pens?”.

Frequently Asked Questions

What if I drop my Pen?

If you drop your Pen or think that something is wrong with it, attach a new disposable needle and check the Norditropin® flow before you inject, see steps 1 and 2. Do not try to repair your Pen or push it apart.

How do I clean my Pen?

Do not wash, soak, or lubricate your Pen. If necessary, clean it with mild detergent on a moistened cloth.

How do I dispose of used needles and Pens?

Put your used needles in an FDA-cleared sharps disposal container right away after use. Do not throw away (dispose of) loose needles in your household trash. If you do not have an FDA-cleared sharps disposal container, you may use a household container that is:

- made of a heavy-duty plastic,
- can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,
- upright and stable during use,
- leak-resistant, and
- properly labeled to warn of hazardous waste inside the container.

When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should dispose of used needles and Pens. For more information about safe sharps disposal, and for specific information about safe 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. When there is not enough medicine left in your Pen for your prescribed dose, the Pen may be thrown away in your household trash after you have removed the needle.

Important information

- Caregivers must be very careful when handling needles to reduce the risk of needle sticks and infection.
- Norditropin® FlexPro® 10 mg/1.5 mL Pen is compatible with FlexPro® PenMate®.

For further information about safe sharps disposal, see Frequently Asked Questions.
Norditropin® FlexPro® (Nor-dee-tro-pin) (somatropin) injection
15 mg/1.5 mL
INSTRUCTIONS FOR USE
Overview Norditropin® FlexPro® Pen
Supplies you will need:
- Norditropin® FlexPro® prefilled Pen new injection needle.
- Norditropin® prefilled Pen is designed to be used with all Nordisk disposable needles up to a length of 8 mm
- sharps disposal container. See step 5 for information on how to throw away (dispose of) used needles and Pens.
- alcohol pad
- gauze pad

How to use your Norditropin® FlexPro® Pen
5 steps you should follow for a Norditropin® injection:
Step 1. Prepare your Norditropin® FlexPro® Pen
Step 2. Check the Norditropin® flow with each new Pen
Step 3. Select your dose
Step 4. Inject your dose
Step 5. After your injection

For further information about your Pen see:
- Frequently Asked Questions
- Important information
- Patient Information

Important information
Make sure that you read this information carefully.

Additional information
Norditropin® is for use under the skin only (subcutaneous).

Do not share your Norditropin® Pen and needles with another person. You may give another person an infection or get an infection from them.

Do not use your Pen without proper training from your healthcare provider. Make sure that you are confident in giving an injection with the Pen before you start your treatment. If you are blind or have poor eyesight and cannot read the dose counter on the Pen, do not use this Pen without help. Get help from a person with good eyesight who is trained to use the Pen.

Step 1. Prepare your Norditropin® FlexPro® Pen
- Wash your hands with soap and water.
- Check the name, strength, and colored label on your Pen to make sure that it contains Norditropin® in the right strength.
- Pull off the Pen cap.
- Turn the Pen upside down 1 or 2 times to check that the Norditropin® in your Pen is clear and colorless. See figure A. If the Norditropin® looks cloudy, do not use the Pen.
- When you are ready to give your injection, take a new disposable needle, and remove the paper tab.
- Push the needle straight onto the Pen. Turn the needle clockwise until it is on tight. See figure B.
- Always use a new needle for each injection. This reduces the risk of contamination, infection, leakage of Norditropin®, and blocked needles leading to incorrect dosing.
- Pull off the outer needle cap and dispose of it. See figure C.
- Pull off the inner needle cap and dispose of it. See figure D.
- A drop of Norditropin® may appear at the needle tip. This is normal, but you must still check the Norditropin® flow with each new Pen. See step 2.
- Never use a bent or damaged needle.

Step 2. Check the Norditropin® flow with each new Pen
- If your Pen is already in use, go to step 3.
- Before using a new Pen, check the Norditropin® flow to make sure the growth hormone can flow through the Pen and needle.
- Turn the dose selector clockwise 1 tick marking on the dose counter to select 0.1 mg. You will hear a faint “click” when you turn the dose selector. See figure E.
- 1 marking on the dose counter equals 0.1 mg. See figure F.
- Hold the Pen with the needle pointing up. Press and hold in the dose selector until the dose counter returns to “0”. The “0” must line up with the dose pointer. See figure G.
- Check that a drop of Norditropin® appears at the needle tip. See figure H.
- If no Norditropin® appears, repeat step 2 up to 6 times.
- If you still do not see a drop of Norditropin®, change the needle:
  - Carefully remove the needle from the Pen by turning the needle counterclockwise. Place the needle in a sharps disposal container immediately. See step 5.
  - and repeat step 2 again.
- Do not use the Pen if a drop of Norditropin® still does not appear after changing the needle and repeating step 2. Call Novo Nordisk at 1-888-668-6444 for help.

Step 3. Select your dose
- To start, check that the dose pointer is set at “0”.
- Turn the dose selector clockwise to select the dose you need. See figure I.
- When you have selected your dose, you can go to step 4.
- If there is not enough Norditropin® left to select a full dose, see Frequently Asked Questions.

- The dose counter shows the dose in “mg”. See figures J and K. Always use the dose counter to select the exact dose. Do not use the “click” sound you hear when you turn the dose selector or the Pen scale to select your dose. Only the dose pointer on the dose counter will show the exact dose selected.

Example: 5.9 mg selected

Example: 1.2 mg selected
Step 4. Inject your dose

- Select the injection site.
- Norditropin® can be injected under the skin (subcutaneously) of your stomach area (abdomen), buttocks, upper legs (thighs), or upper arms, as instructed by your healthcare provider. Change the injection site every day.
- Wipe the injection site with an alcohol swab and let the area dry.
- Insert the needle into your skin as your healthcare provider has shown you. See figure M.

Make sure you can see the dose counter. Do not cover it with your fingers. This could block the injection.

- Press and hold down the dose button until the dose counter shows “0”. See figure N. The “0” must line up with the dose pointer. You may then hear or feel a “click”.
- Continue to hold the needle in your skin.

□ If “0” does not appear in the dose counter after continuously pressing the dose button, your needle may be blocked or damaged, see Frequently Asked Questions.

- Keep the needle in your skin after the dose counter has returned to “0”. Count slowly to 6 to ensure that the full dose has been delivered. See figure O.

□ You may see a drop of Norditropin® at the needle tip after injecting. This is normal and does not affect your dose.

Step 5. After your injection

- Carefully remove the needle from your skin. See figure P. If blood appears at the injection site, press lightly with a gauze pad. Do not rub the area.

□ You may see a drop of Norditropin® at the needle tip after injecting. This is normal and does not affect your dose.

- Place the needle in a sharps disposal container immediately to reduce the risk of a needle stick. See figure R.

□ Always dispose of the needle after each injection.

For further information about safe sharps disposal, see Frequently Asked Questions.

⚠️ Do not try to put the needle cap back on. You may stick yourself with the needle.

Put the Pen on your Pen after each use to protect the Norditropin® from direct light. See figure S. See “How should I store Norditropin®?”.

Always remove the needle from your Pen. This reduces the risk of contamination, injection, leakage of Norditropin®, and blocked needles leading to incorrect dosing.

How should I store Norditropin®?

- Before you use Norditropin® FlexPro® pens for the first time:
  - Store your new, unused Norditropin® pen in a refrigerator between 36°F to 46°F (2°C to 8°C).
  - Do not freeze Norditropin®.
  - Keep Norditropin® away from direct light.
  - Do not use Norditropin® that has been frozen or in temperatures warmer than 77°F (25°C).
  - Do not use Norditropin® after the expiration date printed on the carton and the pen.
- After you use Norditropin® FlexPro® pens and there is still medicine left:
  - Store remaining Norditropin® in the refrigerator between 36°F to 46°F (2°C to 8°C) and use within 4 weeks, or
  - Store remaining Norditropin® at room temperature no warmer than 77°F (25°C) and use within 3 weeks.

Keep Norditropin® and all medicines out of the reach of children.

Frequently Asked Questions

How do I see how much Norditropin® is left in my Pen?

The Pen scale shows you approximately how much Norditropin® is left in your Pen. See figure T below.

To see how much Norditropin® is left in your Pen, use the dose counter: Turn the dose selector clockwise until the dose counter stops. The dose pointer will line up with the number of “mg” left in the Pen. You can select a maximum dose of 8.0 mg. If the dose counter stops with the dose pointer lined up with “8.0”, at least 8.0 mg are left in your Pen.

If the dose counter stops with the dose pointer lined up with “3.8”, only 3.8 mg are left in your Pen. See figure U below.

What if I need a larger dose than what is left in my Pen?

It is not possible to select a larger dose on the dose counter than the number of “mg” left in your Pen.

If you need more Norditropin® than you have left in your Pen, you can use a new Pen or split your dose between your current Pen and a new Pen. Only split your dose if you have been trained or advised by your healthcare provider on how to do this. You may find it helpful to use a calculator to plan the doses as instructed by your healthcare provider.

Be very careful to calculate your split dose correctly so that you do not give the wrong dose. If you are not sure how to split your dose using two Pens, then select and inject the dose you need with a new Pen.

What if no Norditropin® appears when I check the flow?

A. Your needle may be blocked or damaged, if no Norditropin® appears at the needle tip. Remove the needle as described in step 5 and repeat steps 1 and 2.

B. Your Pen may be defective, if Norditropin® still does not appear after changing the needle. Do not use the Pen. Contact Novo Nordisk at 1-888-668-6444.

What if “0” does not appear after completing my injection?

The needle may be blocked or damaged, and you have not received any Norditropin® – even though the dose counter has moved from the dose that you have set. Remove the needle as described in step 5 and repeat steps 1 to 4. If “0” still does not appear after completing the injection, contact Novo Nordisk at 1-888-668-6444.

How should I take care of my Pen?

Be careful not to drop your Pen or knock it against hard surfaces. Do not expose your Pen to dust, dirt, liquid, or direct light. See “How should I store Norditropin®?”

Do not try to refill your Pen, it is already prefilled. When your Pen is empty, throw it in the trash and use a new Pen. See “How do I dispose of used needles and Pens?”.

Frequently Asked Questions

What if I drop my Pen?

If you drop your Pen or think that something is wrong with it, attach a new disposable needle and check the Norditropin® flow before you inject, see steps 1 and 2. Do not try to repair your Pen or pull it apart.

How do I clean my Pen?

Do not wash, soak, or lubricate your Pen. If necessary, clean it with mild detergent on a moistened cloth.

How do I dispose of used needles and Pens?

Put your used needles in an FDA-cleared sharps disposal container right away after use. Do not throw away (dispose of) loose needles in your household trash. If you do not have an FDA-cleared sharps disposal container, you may use a household container that is:

- made of a heavy-duty plastic,
- can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,
- upright and stable during use,
- leak-resistant, and
- properly labeled to warn of hazardous waste inside the container.

When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should dispose of used needles and Pens. For more information about safe sharps disposal, and for specific information about safe 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.

When there is not enough medicine left in your Pen for your prescribed dose, the Pen may be thrown away in your household trash after you have removed the needle.

⚠️ Important information

- Caregivers must be very careful when handling needles to reduce the risk of needle sticks and infection.
- Norditropin® FlexPro® 15 mg/1.5 mL Pen is compatible with FlexPro® PenMate®.
This Instructions for Use has been approved by the U.S. Food and Drug Administration.


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Norditropin® FlexPro® (Nor-dee-tro-pin) (somatropin) injection 30 mg/3 mL

INSTRUCTIONS FOR USE

Overview Norditropin® FlexPro® Pen

- Pen window
- Pen scale
- Dose counter
- Dose selector
- Dose button

Needle (example)

- Outer needle cap
- Inner needle cap
- Needle
- Paper tab

Norditropin® FlexPro® Pen is for single-patient-use only.

Supplies you will need:
- Norditropin® FlexPro® prefilled Pen new injection needle. Norditropin prefilled Pen is designed to be used with all Novo Nordisk disposable needles up to a length of 8 mm
- sharps disposal container. See step 5 for information on how to throw away (dispose of) used needles and Pens.
- alcohol pad
- gauze pad

How to use your Norditropin® FlexPro® Pen

5 steps you should follow for a Norditropin® injection:

Step 1. Prepare your Norditropin® FlexPro® Pen
- Wash your hands with soap and water.
- Check that the same, strength, and colored label on your Pen to make sure that it contains Norditropin® in the right strength.
- Pull off the Pen cap.
- Turn the Pen upside down 1 or 2 times to check that the Norditropin® in your Pen is clear and colorless. See figure A. If the Norditropin® looks cloudy, do not use the Pen.

Step 2. Check the Norditropin® flow with each new Pen
- When you are ready to give your injection, take a new disposable needle, and remove the paper tab.
- Push the needle straight onto the Pen. Turn the needle clockwise until it is on tight. See figure B.

Step 3. Select your dose
- Pull off the outer needle cap and dispose of it. See figure C.

Step 4. Inject your dose
- Pull off the inner needle cap and dispose of it. See figure D. A drop of Norditropin® may appear at the needle tip. This is normal, but you must still check the Norditropin® flow with each new Pen. See step 2.

Step 5: After your injection
- Hold the Pen with the needle pointing up. Press and hold in the dose button until the dose counter returns to "0". The "0" must line up with the dose pointer. See figure G.

- Check that a drop of Norditropin® appears at the needle tip. See figure H.

- If no Norditropin® appears, repeat step 2 up to 6 times.

Do not use the Pen if a drop of Norditropin® still does not appear after changing the needle and repeating step 2. Call Novo Nordisk at 1-888-668-6444 for help.

Step 3. Select your dose
- To start, check that the dose pointer is set at "0".
- Turn the dose selector clockwise to select the dose you need. See figure I. When you have selected your dose, you can go on to step 4.

- If there is not enough Norditropin® left to select a full dose, see Frequently Asked Questions.

- The dose counter shows the dose in "mg". See figures J and K. Always use the dose counter to select the exact dose. Do not use the “click” sound you hear when you turn the dose selector or the Pen scale to select your dose. Only the dose pointer on the dose counter will show the exact dose selected.

- If your Pen is already in use, go to step 3.

Before using a new Pen, check the Norditropin® flow to make sure the growth hormone can flow through the Pen and needle.
- Turn the dose selector clockwise 1 tick marking on the dose counter to select 0.1 mg. You will hear a faint “click” when you turn the dose selector. See figure E.
- If you select the wrong dose, you can turn the dose selector clockwise or counterclockwise to the correct dose. See figure L. The Pen “clicks” sound and feel differently when the dose selector is turned clockwise, counterclockwise, or if you forcefully move it past the number of "mg" left in the Pen.

- 1 marking on the dose counter equals 0.1 mg. See figure F.

- Never use a bent or damaged needle.

Always use a new needle for each injection. This reduces the risk of contamination, infection, leakage of Norditropin®, and blocked needles leading to incorrect dosing.

- Example: 2.4 mg selected

- Example: 0.7 mg selected

For further information about your Pen see:
- Frequently Asked Questions
- Important Information
- Patient Information

Important information
Make sure that you read this information carefully.

Additional information
Norditropin® is for use under the skin only (subcutaneous).

Do not share your Norditropin® Pen and needles with another person. You may give another person an infection or get an infection from them.

Do not use your Pen without proper training from your healthcare provider.

Make sure that you are confident in giving an injection with the Pen before you start your treatment.

If you are blind or have poor eyesight and cannot read the dose counter on the Pen, do not use this Pen without help. Get help from a person with good eyesight who is trained to use the Pen.

If you forcefully move it past the number of "mg" left in the Pen.
Step 4. Inject your dose

- Select the injection site.
- Norditropin® can be injected under the skin (subcutaneously) of your stomach area (abdomen), buttocks, upper legs (thighs), or upper arms, as instructed by your healthcare provider. Change the injection site every day.
- Wipe the injection site with an alcohol swab and let the area dry.
- Insert the needle into your skin as your healthcare provider has shown you. See figure M.

\(\text{\textbullet Do not cover it with your fingers. This could block the injection.}\)

\(\text{\textbullet Put the Cap on your Pen after each use to protect the Norditropin® from direct light. See figure S.}\)

\(\text{\textbullet See "How should I store Norditropin?".}\)

\(\text{\textbullet Always remove the needle from your Pen. This reduces the risk of contamination, infection, leakage of Norditropin®, and blocked needles leading to incorrect dosing.}\)

How should I store Norditropin®?

- Before you use Norditropin® FlexPro® pens for the first time:
  - Store your new, unused Norditropin® pen in a refrigerator between 36º to 46º°F (2ºC to 8ºC).
  - Do not freeze Norditropin®.
  - Keep Norditropin® away from direct light.
  - Do not use Norditropin® that has been frozen or in temperatures warmer than 77ºF (25ºC).
  - Do not use Norditropin® after the expiration date printed on the carton and the pen.

- After you use Norditropin® FlexPro® pens and there is still medicine left:
  - Store remaining Norditropin® in the refrigerator between 36º to 46º°F (2ºC to 8ºC) and use within 4 weeks, or
  - Store remaining Norditropin® at room temperature no warmer than 77ºF (25ºC) and use within 3 weeks.

Keep Norditropin® and all medicines out of the reach of children.

Frequently Asked Questions

How do I see how much Norditropin® is left in my Pen?

- The Pen scale shows you approximately how much Norditropin® is left in your Pen. See figure T below.

- To see how much Norditropin® is left in your Pen, use the dose counter:
  - Turn the dose selector clockwise until the dose counter stops. The dose pointer will line up with the number of “mg” left in the Pen. You can select a maximum dose of 8.0 mg. If the dose counter stops with the dose pointer lined up with “0.0”, at least 8.0 mg are left in your Pen.
  - If the dose counter stops with the dose pointer lined up with “3.8”, only 3.8 mg are left in your Pen. See figure U below.

What if I need a larger dose than what is left in my Pen?

- It is not possible to select a larger dose on the dose counter than the number of “mg” left in your Pen.
- If you need more Norditropin® than you have left in your Pen, you can use a new Pen or split your dose between your current Pen and a new Pen. Only split your dose if you have been trained or advised by your healthcare provider on how to do this. You may find it helpful to use a calculator to plan the doses as instructed by your healthcare provider.

- Be very careful to calculate your split dose correctly so that you do not give the wrong dose. If you are not sure how to split your dose using two Pens, then select and inject the dose you need with a new Pen.

What if no Norditropin® appears when I check the flow?

- A. Your needle may be blocked or damaged, if no Norditropin® appears at the needle tip. Remove the needle as described in step 5 and repeat steps 1 and 2.
- B. Your Pen may be defective, if Norditropin® still does not appear after changing the needle. Do not use the Pen. Contact Nordisk at 1-888-668-6444.

What if “0” does not appear after completing my injection?

- The needle may be blocked or damaged, and you have not injected any Norditropin® – even though the dose counter has moved from the dose that you have set. Remove the needle as described in step 5 and repeat steps 1 to 4.
- If “0” still does not appear after completing the injection, contact Nordisk at 1-888-668-6444.

How should I take care of my Pen?

- Be careful not to drop your Pen or knock it against hard surfaces. Do not expose your Pen to dust, dirt, liquid, or direct light.
- See “How should I store Norditropin®?”. Do not try to refill your Pen, it is already prefilled. When your Pen is empty, throw it away and use a new Pen. See “How do I dispose of used needles and Pens?”.

Frequently Asked Questions

How do I clean my Pen?

- Do not wash, soak, or lubricate your Pen. If necessary, clean it with mild detergent on a moistened cloth.

How do I dispose of used needles and Pens?

- Put your used needles in an FDA-cleared sharps disposal container right away after use. Do not throw away (dispose of) loose needles in your household trash. If you do not have an FDA-cleared sharps disposal container, you may use a household container that is:
  - made of a heavy-duty plastic,
  - can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,
  - upright and stable during use,
  - leak-resistant, and
  - properly labeled to warn of hazardous waste inside the container.

- When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should dispose of used needles and Pens. For more information about safe sharps disposal, and for specific information about safe 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.

- When there is not enough medicine left in your Pen for your prescribed dose, the Pen may be thrown away in your household trash after you have removed the needle.

Important information

- Caregivers must be very careful when handling needles to reduce the risk of needle sticks and infection.
- Norditropin® FlexPro® 30 mg/3 mL Pen is not compatible with FlexPro® PenMate®.
INSTRUCTIONS FOR USE

Norditropin® (Nor-dee-tro-pin) FlexPro® (somatropin) injection
Prefilled Pen with PenMate®

Read this Instructions for Use before you start using your Pen with PenMate®.

• PenMate® hides the needle when you inject your Norditropin® growth hormone with Norditropin® FlexPro® 5 mg, 10 mg, and 15 mg Pens so that you cannot see it. Use your PenMate® only after you have been trained by a healthcare provider.
• Blind people or people with severe vision problems should only use the PenMate® and Pen with help from another person with good eyesight who is trained to use the PenMate® and Pen.
• The figures in these instructions show PenMate® being used with a Norditropin® FlexPro® 5 mg Pen and a NovoFine® needle that is 8 mm long. Even if you are using a 10 mg or 15 mg Pen or a different needle that is 8 mm long the instructions are the same.
• Do not share your Norditropin® Pen and needles with another person. You may give another person an infection or get an infection from them.

Supplies you will need to use your Pen with PenMate®:

• 1 PenMate®. See figure A.
• 1 Norditropin® FlexPro® Pen. See figure B. PenMate® does not work with other injection devices.
• 1 disposable needle up to a length of 8 mm. See figure C. Needles are not included with your PenMate® or Pen.
• 2 alcohol swabs. See figure C.
• a sharps disposal container. See figure C. See “How should I dispose of my Pen and needles” at the end of these instructions for information on how to dispose of used needles.

PenMate®:

Figure A

Pen case:

Figure D

Step 1: Preparing your Pen with PenMate®:

Wash your hands with soap and water and dry them. Check the name and the colored label on your Pen to make sure it contains the growth hormone strength prescribed by your healthcare provider.

Pull off the PenMate® cap.
See figure E.

Pull off the Pen cap and throw it away.
See figure F.
You will not need the Pen cap with your PenMate®.

Look in the Pen window. Check that the liquid medicine in your Pen is clear and colorless by tipping it upside down 1 or 2 times.
See figure G.
If the liquid looks cloudy or unclear, do not use the Pen.

Wipe the front stopper on the needle thread of the Pen with an alcohol swab.
See figure H.

Insert the Pen into the PenMate®. Twist the Pen clockwise until you hear or feel a click.
See figure I.
The Pen is correctly attached in your PenMate® when the display window on the Pen lines up with the insertion button on your PenMate®.
Step 2. Attaching the needle to your Pen:
- Do not place a needle on your Pen until you are ready to give an injection.
- Always use a new needle for each injection.
- Do not use a bent or damaged needle.

Take a new disposable needle and tear off the paper tab. See figure J.

**Figure J**

Holding the Pen with 1 hand, firmly press the needle onto the needle thread of the Pen. Screw the needle in a clockwise direction until the needle will not turn anymore. See figure K.

**Figure K**

Pull off the outer needle cap and save it. See figure L.

You will need the outer needle cap after the injection so you can safely remove the needle from the Pen.

**Figure L**

Pull off the inner needle cap and throw it away. See figure M.

A drop of liquid may appear at the needle tip. This is normal.

**Figure M**

Step 3. Priming a new Pen:
Checking the growth hormone flow in the Pen (priming) is not needed for a Pen you have used before. If the Pen has already been primed, go to Step 4.

Before you use a new Pen you must prepare it for use. Hold the Pen with 1 hand and turn the dose selector clockwise 1 tick mark to select the minimum dose. See figure N.

You may hear or feel a click when you turn the dose selector.

**Figure N**

When you turn the dose selector 1 tick mark, you select the smallest amount of medicine for a dose. See figure O.

![Color code](https://example.com/color-code.png)

**Figure O**

This lowest dose will be used for your Norditropin® flow check dose.

Hold your Pen with PenMate® with the needle pointing up. You may see air bubbles in the PenMate® window. Gently tap the top of PenMate® a few times to let any air bubbles rise to the top. See figure P.

**Figure P**

Press the dose button until the dose pointer lines up with the “0” in the display window on the Pen and a drop of liquid appears at the needle tip. See figure Q.

If no drop of liquid appears at the needle tip, repeat Step 3 again up to 6 times. If there is still no drop of liquid at the needle tip, change the needle and repeat Step 3 again.

**Figure Q**

If a drop of liquid still does not appear at the needle tip after repeating Step 3 and changing the needle, call Novo Nordisk at 1-888-668-6444 for assistance.

Step 4. Selecting the correct dose of Norditropin®:
Use the dose selector on your Pen to make sure you have the exact dose selected. Your dose will be in a certain number of mg (milligrams).

To start, check that the dose pointer on the Pen is set at “0”.

Select the dose you need by turning the dose selector clockwise. If you go beyond your dose, turn the dose selector counterclockwise until the right number of mg lines up with the dose pointer. See figure R.

**Figure R**

To guide you, the dose selector click sound is different when turned clockwise (softer click) or counterclockwise (louder click). You will hear a click for every single unit dialed.

When dialing counterclockwise, be careful not to press the dose button as liquid will come out.

You can use the growth hormone scale on the side of the Pen to see approximately how much growth hormone is left in the Pen. You can also use the dose selector to see exactly how much growth hormone is left in the Pen.

If the Pen contains less than 2 mg, 4 mg, or 8 mg (depending on whether you use a 5 mg, 10 mg, or 15 mg Pen), turn the dose selector until it stops. The number that lines up with the dose pointer shows how many mg are left in the Pen. You cannot set a dose higher than the number of mg left in the Pen.

If there is not enough Norditropin® left in the Pen for your full dose, use a new Norditropin® FlexPro® Pen to inject the remaining amount of your dose or contact your healthcare provider.

Remember to subtract the dose already received. For example, if the dose is 0.7 mg and you can only set the dose selector to 0.35 mg, you should inject another 0.35 mg with a new Norditropin® FlexPro® Pen.

**Important:**
Do not use the Pen clicks to count the number of mg you select. Only the display window and dose pointer will show the exact number.

Do not use the growth hormone scale to measure how much liquid to inject. Only the display window and dose pointer will show the exact number.

Step 5. Selecting your injection site and injecting the dose of Norditropin®:
Change your injection site every day. Select the injection site and wipe your skin with an alcohol swab as your healthcare provider showed you.

Norditropin® can be injected under your skin (subcutaneously) of your hips, stomach area (abdomen), upper legs (thighs), upper arms, or as otherwise instructed by your healthcare provider. See figure S.

**Figure S**
Hold onto both the PenMate® and your Pen without touching the insertion button on the PenMate® or the dose button on the Pen.

Do not press the insertion button on the PenMate® before you are ready to inject your dose. This lowers the risk of hurting yourself with the needle.

Hold the PenMate® firmly with 1 hand and pull the Pen out with your other hand until you hear and feel a click. See figure T.

The needle is now hidden in PenMate®.

If the dose button cannot be pushed in completely or “0” does not appear in the display window, you did not receive the full dose. Call Novo Nordisk at 1-888-668-6444 for assistance. You may need a new Pen.

After the display window has returned to “0”, leave the needle under your skin for at least 6 seconds to make sure you get your full dose. See figure V.

Let go of the dose button while you wait.

Important:
Always press the dose button to inject the dose. Turning the dose selector will not inject the dose.
Do not touch the display window when you inject, as this can block the injection.

Carefully lift the Pen to remove the needle from the skin. See figure W.

Step 6. What to do after your injection is completed:
Carefully put the outer needle cap back on the needle. Remove the needle from the Pen after each injection. See figure X.

Unscrew the needle by turning it counterclockwise. Do not touch the needle. Hold the Pen with 1 hand and carefully remove the needle from the Pen with your other hand. See figure Y.

Dispose of the needle as directed by a healthcare provider. See “How should I dispose of my Pen and needles?” at the end of these instructions.

Put the PenMate® cap back on your PenMate® after each use to protect the growth hormone from light. See figure Z.

Important safety information to remember:
• Be careful not to drop your PenMate® and Pen or knock them against a hard surface. If this happens you will need to check the growth hormone flow.
• Do not try to put the inner needle cap back on the needle. You may stick yourself with the needle. Be careful when handling used needles to avoid needle stick injuries.
• After each use always remove and dispose of the needle from your Pen.
• Do not share your Pen or needles with other people.
• If your PenMate® is damaged or lost, you can still use your Pen without your PenMate®.
• Always keep your Pen and needles out of reach of others, especially children.

How should I replace an empty Pen?
PenMate® is reusable and should not be disposed of. Reuse your PenMate® by replacing your Pen when it is empty. When your Pen is empty, twist the Pen until you hear or feel a click. See figure AA.

Gently pull the Pen out of PenMate®. See figure BB.
Before disposing of your empty Pen, make sure the needle has been removed. Dispose of the empty Pen as recommended by your healthcare provider. See “How should I dispose of my Pen and needles?” at the end of these instructions.

Insert the new Pen into your PenMate®. See figure CC.
Twist the Pen until you hear or feel a click.
See figure DD.
The Pen is correctly attached in your PenMate® when the display window on the Pen lines up with the insertion button on your PenMate®.

Need help?
PenMate® must only be used according to the instructions provided. The manufacturer cannot be held responsible for any problems with PenMate® if these instructions have not been followed.

If you find that your PenMate® or case is defective, make sure to have Novo Nordisk replace it. Call the number below to order a new PenMate® or case and arrange return of the defective item for inspection.

How should I store my PenMate® and Pen?
• Do not expose your PenMate® or Pen to dust, dirt, or any kind of liquid.
• Store your PenMate® and Pen in their case. See figure D at the beginning of these instructions.
• When your Pen is inserted in PenMate®, store it as described in the Patient Information Leaflet that comes with your Pen.

How should I care for and clean my Pen with PenMate®?
• Do not try to refill your Pen. It is prefilled.
• Do not try to repair your PenMate® or your Pen.
• Only clean your PenMate® or Pen with a mild detergent on a moistened cloth.
• Do not wash, soak, or lubricate your PenMate® or Pen. Do not use products containing bleaching agents, such as chlorine, iodine, or alcohol to clean your PenMate® or Pen. These products may damage them.
• If there is liquid growth hormone on the outside of your PenMate® or Pen, clean it with a mild detergent on a moistened cloth before it dries up.

How should I dispose of my Pen and needles?
• Put your used needles and Pens 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, and
  • properly labeled to warn of hazardous waste inside the container.
• When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container.
There may be state or local laws about how you should throw away used needles and Pens. For more information about safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to the FDA’s website at: 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.