

1. Name of the medicinal product

NovoEight®

250 IU powder and solvent for solution for injection

500 IU powder and solvent for solution for injection

1000 IU powder and solvent for solution for injection

2. Qualitative and quantitative composition

Each powder vial contains nominally 250, 500 or 1000 IU human coagulation factor VIII (rDNA), turoctocog alfa.

After reconstitution NovoEight® contains approximately 62.5, 125 or 250 IU/ml of human coagulation factor VIII (rDNA), turoctocog alfa.

The potency (IU) is determined using the European Pharmacopoeia (Ph. Eur) chromogenic assay. The specific activity of NovoEight® is approximately 8,300 IU/mg protein.

Turoctocog alfa (human coagulation factor VIII (rDNA)) is a purified protein that has 1,445 amino acids with an approximate molecular mass of 166 kDa. It is produced by recombinant DNA technology in Chinese hamster ovary (CHO) cells and prepared without the addition of any human or animal derived protein in the cell culture process, purification or final formulation.

Turoctocog alfa is a B-domain truncated recombinant human coagulation factor VIII (B-domain consists of 21 amino acids of the wild type B-domain) without any other modifications in the amino acid sequence.

Excipient with known effect

The medicinal product contains 30.5 mg sodium per reconstituted vial.

For the full list of excipients, see section 6.1.

3. Pharmaceutical form

Powder and solvent for solution for injection.

White or slightly yellow powder or friable mass.

Clear and colourless solution for injection.

4. Clinical particulars

4.1 Therapeutic indications

Treatment and prophylaxis of bleeding in patients with haemophilia A (congenital factor VIII deficiency).

NovoEight® can be used for all age groups.

4.2 Posology and method of administration

Treatment should be under the supervision of a doctor experienced in the treatment of haemophilia.

Treatment monitoring

During the course of treatment, appropriate determination of factor VIII levels is advised to guide the dose to be administered and the frequency of repeated injections. Individual patients may vary in their response to factor VIII, demonstrating different half-lives and recoveries. Dose based on bodyweight may require adjustment in underweight or overweight patients. In a single dose pharmacokinetic study in adult patients the maximum exposure (C_{max}) and the total exposure (AUC) increased with increasing body mass index (BMI) indicating that dose adjustments may be required. An increase in dose may be required for underweight patients ($BMI < 18.5 \text{ kg/m}^2$) and a decrease in dose may be required for obese patients ($BMI \geq 30 \text{ kg/m}^2$), but there is insufficient data to recommend specific dose adjustments, see section 5.2.

In the case of major surgical interventions in particular, precise monitoring of the substitution therapy by means of coagulation analysis (plasma factor VIII activity) is indispensable.

When using an *in vitro* thromboplastin time (aPTT)-based one stage clotting assay for determining factor VIII activity in patients' blood samples, plasma factor VIII activity results can be significantly affected by both the type of aPTT reagent and the reference standard used in the assay. Also there can be significant discrepancies between assay results obtained by aPTT-based one stage clotting assay and the chromogenic assay according to Ph. Eur. This is of importance particularly when changing the laboratory and/or reagents used in the assay.

Posology

The dose and duration of the substitution therapy depend on the severity of the factor VIII deficiency, on the location and extent of the bleeding and the patient's clinical condition.

The number of units of factor VIII administered is expressed in International Units (IU), which are related to the current WHO standard for factor VIII products. The activity of factor VIII in plasma is expressed either as percentage (relative to normal level human plasma) or in International Units (IU) (relative to an International Standard for factor VIII in plasma).

One IU of factor VIII activity is equivalent to that quantity of factor VIII in one ml normal human plasma.

On-demand treatment

The calculation of the required dose of factor VIII is based on the empirical finding that 1 IU factor VIII per kg body weight raises the plasma factor VIII activity by 2 IU/dl. The required dose is determined using the following formula:

Required units (IU) = body weight (kg) × desired factor VIII rise (%) (IU/dl) × 0.5 (IU/kg per IU/dl).

The amount to be administered and the frequency of administration should always be oriented to the clinical effectiveness in the individual case.

In case of the following haemorrhagic events, the factor VIII activity should not fall below the given plasma activity level (in % of normal or IU/dl) in the corresponding period. The following table can be used to guide dosing in bleeding episodes and surgery:

Table 1 Guide for dosing in bleeding episodes and surgery

Degree of haemorrhage/Type of surgical procedure	FVIII level required (%) (IU/dl)	Frequency of doses (hours)/Duration of therapy (days)
Haemorrhage		
Early haemarthrosis, muscle bleeding or oral bleeding	20–40	Repeat every 12–24 hours, at least 1 day, until the bleeding episode as indicated by pain is resolved or healing achieved
More extensive haemarthrosis, muscle bleeding or haematoma	30–60	Repeat infusion every 12–24 hours for 3–4 days or more until pain and acute disability are resolved
Life threatening haemorrhages	60–100	Repeat infusion every 8–24 hours until threat is resolved
Surgery		
Minor surgery including tooth extraction	30–60	Every 24 hours, at least 1 day, until healing is achieved
Major surgery	80–100 (pre- and postoperative)	Repeat infusion every 8–24 hours until adequate wound healing, then therapy for at least another 7 days to maintain a factor VIII activity of 30% to 60% (IU/dl)

Prophylaxis

For long term prophylaxis against bleeding in patients with severe haemophilia A, the usual recommended doses are 20–40 IU of factor VIII per kg body weight every second day or 20–50 IU of factor VIII per kg body weight 3 times weekly. In adults and adolescents (>12 years) a less frequent regimen (40–60 IU/kg every third day or twice weekly) may be applicable. In some cases, especially in younger patients, shorter dosage intervals or higher doses may be necessary.

Surgery

There is limited experience of surgery in paediatric patients.

Elderly

There is no experience in patients > 65 years.

Paediatric population

For long term prophylaxis against bleeding in patients below the age of 12, doses of 25–50 IU of factor VIII per kg body weight every second day or 25–60 IU of factor VIII per kg body weight 3 times weekly are recommended. For paediatric patients above the age of 12 the dose recommendations are the same as for adults.

Method of administration

Intravenous use.

The recommended infusion rate for NovoEight® is 1–2 ml/min. The rate should be determined by the patient's comfort level.

For instructions on reconstitution of the medicinal product before administration, see Instructions on how to use NovoEight®.

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Known allergic reaction to hamster proteins.

4.4 Special warnings and precautions for use

Traceability

In order to improve traceability of biological medicinal products, the name and the batch number of the administered product should be clearly recorded.

Hypersensitivity

Allergic type hypersensitivity reactions are possible with NovoEight®. The product contains traces of hamster proteins, which in some patients may cause allergic reactions. If symptoms of hypersensitivity occur, patients should be advised to discontinue use of the medicinal product immediately and contact their physician. Patients should be informed of the early signs of hypersensitivity reactions including hives, generalised urticaria, tightness of the chest, wheezing, hypotension and anaphylaxis.

In case of shock, standard medical treatment for shock should be implemented.

Inhibitors

The formation of neutralising antibodies (inhibitors) to factor VIII is a known complication in the management of individuals with haemophilia A. These inhibitors are usually IgG immunoglobulins directed against the factor VIII procoagulant activity, which are quantified in Bethesda Units (BU) per ml of plasma using the modified assay. The risk of developing inhibitors is correlated to the severity of the disease as well as the exposure to factor VIII, this risk being highest within the first 50 exposure days but continues throughout life although the risk is uncommon.

The clinical relevance of inhibitor development will depend on the titre of the inhibitor, with low titre posing less of a risk of insufficient clinical response than high titre inhibitors.

In general, all patients treated with coagulation factor VIII products should be carefully monitored for the development of inhibitors by appropriate clinical observation and laboratory test. If the expected factor VIII activity plasma levels are not attained, or if bleeding is not controlled with an appropriate dose, testing for factor VIII inhibitor presence should be performed. In patients with high levels of inhibitors, factor VIII therapy may not be effective and other therapeutic options should be considered. Management of such patients should be directed by physicians with experience in the care of haemophilia and factor VIII inhibitors.

Cardiovascular event

In patients with existing cardiovascular risk factors, substitution therapy with FVIII may increase the cardiovascular risk.

Catheter-related complications

If a central venous access device (CVAD) is required, risk of CVAD-related complications including local infections, bacteraemia and catheter site thrombosis should be considered

It is strongly recommended that every time that NovoEight® is administered to a patient, the name and batch number of the product are recorded in order to maintain a link between the patient and the batch of the medicinal product.

Paediatric population

The listed warnings and precautions apply both to adults and children.

Excipient related considerations

The medicinal product contains 30.5 mg sodium per reconstituted vial, equivalent to 1.5% of the WHO recommended maximum daily intake of 2 g sodium for an adult.

4.5 Interaction with other medicinal products and other forms of interaction

No interactions of human coagulation factor VIII (rDNA) products with other medicinal products have been reported.

4.6 Fertility, pregnancy and lactation

Animal reproduction studies have not been conducted with NovoEight®. Based on the rare occurrence of haemophilia A in women, experience regarding the use of factor VIII during pregnancy and breastfeeding is not available. Therefore, factor VIII should be used during pregnancy and lactation only if clearly indicated.

4.7 Effects on ability to drive and use machines

NovoEight® has no influence on the ability to drive and use machines.

4.8 Undesirable effects

Summary of the safety profile

Hypersensitivity or allergic reactions (which may include angioedema, burning and stinging at the infusion site, chills, flushing, generalised urticaria, headache, hives, hypotension, lethargy, nausea, restlessness, tachycardia, tightness of the chest, tingling, vomiting, wheezing) have been observed rarely and may in some cases progress to severe anaphylaxis (including shock).

Very rarely development of antibodies to hamster protein with related hypersensitivity reactions has been observed.

Development of neutralising antibodies (inhibitors) may occur in patients with haemophilia A treated with factor VIII, including with NovoEight®. If such inhibitors occur, the condition will manifest itself as an insufficient clinical response. In such cases, it is recommended that a specialised haemophilia centre is contacted.

Tabulated list of adverse reactions

The table presented below is according to the MedDRA system organ classification (SOC and Preferred Term Level).

Frequencies have been evaluated according to the following convention: very common ($\geq 1/10$), common ($\geq 1/100$ to $< 1/10$), uncommon ($\geq 1/1,000$ to $< 1/100$), rare ($\geq 1/10,000$ to $< 1/1,000$), very rare ($< 1/10,000$), and not known (cannot be estimated from the available data).

Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

Table 2 Frequency of adverse drug reactions in clinical trials

System Organ Class	Frequency ^a in PTPs	Frequency ^a in PUPs	Adverse reaction
Blood and lymphatic system disorders	Uncommon ^b	Very common ^b	FVIII inhibition
Psychiatric disorders	Uncommon		Insomnia
Nervous system disorders	Uncommon		Headache, dizziness, burning sensation
Cardiac disorders	Uncommon		Sinus tachycardia, acute myocardial infarction
Vascular disorders	Uncommon		Hypertension, lymphoedema, hyperaemia
		Common	Flushing, thrombophlebitis superficial
Skin and subcutaneous tissue disorders		Common	Rash, rash erythematous
	Uncommon		Rash, lichenoid keratosis, skin burning sensation
Musculoskeletal and connective tissue disorders	Uncommon		Musculoskeletal stiffness, arthropathy, pain in extremity, musculoskeletal pain
		Common	Haemarthrosis,

			muscle haemorrhage
Respiratory, thoracic and mediastinal disorders		Common	Cough
General disorders and administration site conditions	Common		Injection site reactions ^c
		Common	Pyrexia, catheter site erythema
	Uncommon		Fatigue, feeling hot, oedema peripheral, pyrexia
Investigations	Common		Hepatic enzymes increased ^d
		Common	Anti factor VIII antibody positive
	Uncommon		Heart rate increased
Gastrointestinal disorders		Common	Vomiting
Injury, poisoning and procedural complications	Common		Incorrect dose administered
		Common	Infusion related reaction
	Uncommon		Contusion
Product issues		Common	Thrombosis in device

^a Calculated based on total number of unique patients in all clinical trials (301), of which 242 were previously treated patients (PTPs) and 60 were previously untreated patients (PUPs).

^b Frequency is based on studies with all FVIII products which included patients with severe haemophilia A.

^c Injection site reactions include injection site erythema, injection site extravasation and injection site pruritus.

^d Hepatic enzymes increased include alanine aminotransferase, aspartate aminotransferase, gamma-glutamyltransferase and bilirubin.

Description of selected adverse reactions

During all clinical studies with NovoEight® in previously treated patients, a total of 35 adverse reactions were reported in 23 of 242 patients exposed to NovoEight®. The most frequently reported adverse reactions were injection site reactions, incorrect dose administered and hepatic enzymes increased. Of the 35 adverse reactions, 2 were reported in 1 out of 31 patients below 6 years of age, none in patients from 6 to ≤ 12 years of age, 1 event in 1 out of 24 patients (12 to < 18 years of age) and 32 were reported in 21 out of 155 adults (≥ 18 years).

Paediatric population

In clinical trials involving 63 previously treated paediatric patients between 0 and 12 years of age and 24 adolescents between 12 and 18 years of age with severe haemophilia A no difference in the safety profile of NovoEight® was observed between paediatric patients and adults.

In the trial with previously untreated patients, between 0 and 6 years of age, a total of 46 adverse reactions were reported in 33 of 60 patients exposed to NovoEight®. The most frequently reported adverse reaction was Factor VIII inhibition, see section 4.4. High risk genetic mutations were identified in 92.3% of the overall and 93.8% of the high titre confirmed inhibitors. No other factors were significantly associated with inhibitor development.

4.9 Overdose

No symptoms of overdose with recombinant coagulation factor VIII have been reported.

5. Pharmacological properties

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: antihæmorrhagics, blood coagulation factor VIII.

ATC code: B02BD02.

Mechanism of action

NovoEight® contains turoctocog alfa, a human coagulation factor VIII (rDNA), with a truncated B-domain. This glycoprotein has the same structure as human factor VIII when activated and post-translational modifications that are similar to those of the plasma-derived molecule. The tyrosine sulphation site present at Tyr1680 (native full length), which is important for the binding to von Willebrand factor, has been found to be fully sulphated in the turoctocog alfa molecule. When infused into a haemophilia patient, factor VIII binds to endogenous von Willebrand factor in the patient's circulation. The factor VIII/von Willebrand factor complex consists of two molecules (factor VIII and von Willebrand factor) with different physiological functions. Activated factor VIII acts as a co-factor for activated factor IX, accelerating the conversion of factor X to activated factor X. Activated factor X converts prothrombin into thrombin. Thrombin then converts fibrinogen into fibrin and a clot can be formed. Haemophilia A is a sex-linked hereditary disorder of blood coagulation due to decreased levels of factor VIII:C and results in profuse bleeding into joints, muscles or internal organs, either spontaneously or as a result of accidental or surgical trauma. By replacement therapy the plasma levels of factor VIII are increased, thereby enabling a temporary correction of the factor deficiency and correction of bleeding tendencies.

Of note, annualised bleeding rate (ABR) is not comparable between different factor concentrates and between different clinical studies.

Clinical efficacy

Four multi-centre, open-labelled, non-controlled trials have been conducted to evaluate the safety and efficacy of NovoEight® in the prevention and treatment of bleeds and during surgery in patients with severe haemophilia A (factor VIII activity $\leq 1\%$). Three of these trials were performed in previously treated patients and the fourth in previously untreated patients. The trials included 298 exposed patients; 175 adolescents or adult patients without inhibitors from the age of 12 years (≥ 150 exposure days), 63 previously treated paediatric patients without inhibitors below 12 years of age (≥ 50 exposure days) and 60 previously untreated patients below 6 years of age. 188 out of 238 previously treated patients continued into the safety extension trial. Treatment with NovoEight® was shown to be safe and had the intended haemostatic and preventive effect. Of the 3,293 reported bleeds observed in 298 of the patients, 2,902 (88.1%) of the bleeds were resolved with 1-2 infusions of NovoEight®.

Table 3 Consumption of NovoEight® and haemostatic success rates in previously untreated patients (PUP) and previously treated patients (PTP)

	Younger children (0 – < 6 years) PUP	Younger children (0 – < 6 years) PTP	Older children (6 – < 12 years) PTP	Adolescents (12 – < 18 years) PTP	Adults (≥ 18 years) PTP	Total
Number of patients	60	31	32	24	151	298
Dose used for prevention per patient (IU/kg BW)						
Mean (SD)	45.2 (14.4)	41.5 (8.1)	38.4 (9.4)	28.5 (9.3)	28.5 (8.3)	32.8 (10.9)
Min; Max	4.5; 363.8	3.4; 196.3	3.2; 62.5	17.4; 73.9	12.0; 97.4	3.2; 363.8
Dose used for treatment of bleed (IU/kg BW)						
Mean (SD)	43.6 (15.2)	44.0 (12.6)	40.4 (10.5)	29.3 (10.3)	35.0 (12.3)	37.5 (13.4)
Min; Max	11.9; 118.9	21.4; 193.8	24.0; 71.4	12.4; 76.8	6.4; 104.0	6.4; 193.8
Success rate ^a %	87.0%	92.2%	88.4%	85.1%	89.6%	88.9%

BW: Body weight, SD: Standard deviation

^a Success is defined as either 'Excellent' or 'Good'.

Pre-authorisation clinical data were corroborated by a non-interventional, post-authorisation safety study conducted in order to provide additional documentation of the immunogenicity, and efficacy and safety of NovoEight® in routine clinical practice. In total 68 previously treated patients (> 150 EDs), of which 14 patients were < 12 years and 54 patients were ≥ 12 years, received either on-demand (N=5) or prophylactic (N=63) treatment for a total of 87.8 patient years and 8967 EDs.

Surgery

A total of 30 surgeries were performed in 25 patients of which 26 were major surgeries and 4 were minor. Haemostasis was successful in all surgeries and no treatment failures were reported.

Data on Immune Tolerance Induction (ITI) has been collected in patients with haemophilia A who had developed inhibitors to factor VIII. During clinical trial in PUPs, 21 patients were treated with ITI and 18 (86%) patients completed ITI with a negative inhibitor test result.

5.2 Pharmacokinetic properties

All pharmacokinetic (PK) studies with NovoEight® were conducted after i.v. administration of 50 IU/kg NovoEight® in previously treated patients with severe haemophilia A (FVIII ≤ 1%). The analysis of plasma samples was conducted using both the one-stage clotting assay and the chromogenic assay.

The assay performance of NovoEight® in FVIII:C assays was evaluated and compared to a marketed full length recombinant FVIII product. The study showed that comparable and consistent results were obtained for both products and that NovoEight® can be reliably measured in plasma without the need of a separate NovoEight® standard.

The single dose pharmacokinetic parameters of NovoEight® are listed in Table 4 for the one-stage clotting assay and in Table 5 for the chromogenic assay.

Table 4 Single-dose pharmacokinetic parameters of NovoEight® (50 IU/kg) by age – one stage clotting assay – Mean (SD)

Parameter	0 – < 6 years	6 – < 12 years	≥ 12 years
	n=14	n=14	n=33
Incremental recovery (IU/dl)/(IU/kg)	1.8 (0.7)	2.0 (0.4)	2.2 (0.4)
AUC ((IU*h)/dl)	992 (411)	1109 (374)	1526 (577)
CL (ml/h/kg)	6.21 (3.66)	5.02 (1.68)	3.63 (1.09)
t _{1/2} (h)	7.65 (1.84)	8.02 (1.89)	11.00 (4.65)
V _{ss} (ml/kg)	56.68 (26.43)	46.82 (10.63)	47.40 (9.21)
C _{max} (IU/dl)	100 (58)	107 (35)	123 (41)
Mean residence time (h)	9.63 (2.50)	9.91 (2.57)	14.19 (5.08)

Abbreviations: AUC = area under the factor VIII activity time profile; CL = clearance; t_{1/2} = terminal half-life; V_{ss} = volume of distribution at steady-state; C_{max} = maximum factor VIII activity.

Table 5 Single-dose pharmacokinetic parameters of NovoEight® (50 IU/kg) by age – chromogenic assay – Mean (SD)

Parameter	0 – < 6 years	6 – < 12 years	≥ 12 years
	n=14	n=14	n=33
Incremental recovery (IU/dl)/(IU/kg)	2.2 (0.6)	2.5 (0.6)	2.9 (0.6)
AUC ((IU*h)/dl)	1223 (436)	1437 (348)	1963 (773)
CL (ml/h/kg)	4.59 (1.73)	3.70 (1.00)	2.86 (0.94)
t _{1/2} (h)	9.99 (1.71)	9.42 (1.52)	11.22 (6.86)
V _{ss} (ml/kg)	55.46 (23.53)	41.23 (6.00)	38.18 (10.24)
C _{max} (IU/dl)	112 (31)	125 (27)	163 (50)
Mean residence time (h)	12.06 (1.90)	11.61 (2.32)	14.54 (5.77)

Abbreviations: AUC = area under the factor VIII activity time profile; CL = clearance; t_{1/2} = terminal half-life; V_{ss} = volume of distribution at steady-state; C_{max} = maximum factor VIII activity.

The pharmacokinetic parameters were comparable between paediatric patients below 6 years of age and the paediatric patients from 6 to below 12 years of age. Some variation was observed in the pharmacokinetic parameters of NovoEight® between paediatric and

adult patients. The higher CL and the shorter $t_{1/2}$ seen in paediatric patients compared to adult patients with haemophilia A may be due in part to the known higher plasma volume per kilogram body weight in younger patients.

A single dose pharmacokinetic trial (50 IU/kg) was performed in 35 haemophilia patients (≥ 18 years of age) in different BMI categories. The maximum exposure (C_{max}) and the total exposure (AUC) increase with increasing BMI indicating that dose adjustments may be required for underweight (BMI < 18.5 kg/m²) and obese patients (BMI ≥ 30 kg/m²), see section 4.2.

Table 6 Single-dose pharmacokinetic parameters of NovoEight® (50 IU/kg) by BMI classes^a – One-stage clotting assay - Mean (SD)

PK parameter	Underweight N=5	Normal weight N=7	Overweigh t N=8	Obese class I N=7	Obese class II/III N=7
Incremental recovery (IU/dl)/(IU/kg)	1.7 (0.2)	2.0 (0.2)	2.4 (0.4)	2.3 (0.3) ^b	2.6 (0.3)
AUC ((IU*h)/dl)	1510 (360)	1920 (610)	1730 (610)	2030 (840)	2350 (590)
CL (ml/h/kg)	3.91 (0.94)	3.20 (1.00)	3.63 (1.24)	3.37 (1.79)	2.51 (0.63)
$t_{1/2}$ (h)	11.3 (2.0)	11.7 (3.5)	9.4 (2.9)	11.2 (3.5)	11.1 (2.7)
V_{ss} (ml/kg)	56.8 (5.4)	44.8 (6.5)	39.6 (6.0)	42.0 (9.0)	35.0 (4.6)
C_{max} (IU/dl)	100 (11)	121 (10)	144 (26)	140 (21)	161 (32)
Mean residence time (h)	15.1 (3.0)	15.3 (4.8)	11.9 (3.7)	14.4 (4.6)	14.6 (3.7)

^a BMI groups: Underweight: BMI < 18.5 kg/m², Normal weight: BMI 18.5-24.9 kg/m², Overweight: BMI 25-29.9 kg/m², Obese class I: BMI 30-34.9 kg/m², Obese class II/III: BMI ≥ 35 kg/m².

^b Based on 6 patients only.

Table 7 Single-dose pharmacokinetic parameters of NovoEight® (50 IU/kg) by BMI classes^a – Chromogenic assay - Mean (SD)

PK parameter	Underweight N=5	Normal weight N=7	Overweight N=9	Obese class I N=7	Obese class II/III N=7
Incremental recovery (IU/dl)/(IU/kg)	2.2 (0.4)	2.9 (0.3)	3.0 (0.5)	3.2 (0.5)	3.5 (0.5)
AUC ((IU*h)/dl)	1860 (700)	2730 (860)	2310 (1020)	2780 (1210)	3050 (730)
CL (ml/h/kg)	3.28 (0.87)	2.25 (0.73)	2.84 (1.09)	2.58 (1.56)	1.94 (0.52)
$t_{1/2}$ (h)	11.7 (2.4)	11.5 (3.6)	9.7 (3.4)	10.4 (3.2)	10.5 (2.5)
V_{ss} (ml/kg)	49.1 (10.4)	31.2 (4.5)	31.6 (5.8)	28.9 (5.1)	25.7 (4.0)
C_{max} (IU/dl)	138 (29)	185 (24)	194 (31)	200 (33)	227 (32)
Mean residence time (h)	15.5 (3.2)	15.2 (4.9)	12.6 (4.8)	13.5 (4.6)	13.9 (3.7)

^a BMI groups: Underweight: BMI <18.5 kg/m², Normal weight: BMI 18.5-24.9 kg/m², Overweight: BMI 25-29.9 kg/m², Obese class I: BMI 30-34.9 kg/m², Obese class II/III: BMI ≥35 kg/m².

5.3 Preclinical safety data

Non-clinical data reveal no special concern for humans based on conventional studies of safety pharmacology and repeated dose toxicity.

6. Pharmaceutical particulars

6.1 List of excipients

Powder:

Sodium chloride, L-histidine, sucrose, polysorbate 80, L-methionine, calcium chloride dihydrate, sodium hydroxide (for pH adjustment) and hydrochloric acid (for pH adjustment).

Solvent:

Sodium chloride and water for injections.

6.2 Incompatibilities

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

6.3 Shelf life

Unopened vial

30 months when stored in a refrigerator (2°C – 8°C).

Expiry date is stated on the labels and carton after 'Expiry'.

During the shelf life, the product may be kept at:

- room temperature ($\leq 30^{\circ}\text{C}$) for a single period no longer than 9 months
- or**
- above room temperature (30°C up to 40°C) for a single period no longer than 3 months.

Once the product has been taken out of the refrigerator, the product must not be returned to the refrigerator.

Please record the beginning of storage and the storage temperature on the product carton.

After reconstitution:

Chemical and physical in-use stability have been demonstrated for:

- 24 hours stored at 2°C – 8°C
- 4 hours stored at 30°C, for product which has been kept for a single period no longer than 9 months at room temperature ($\leq 30^{\circ}\text{C}$)
- 4 hours stored up to 40°C, for product which has been kept for a single period no longer than 3 months at above room temperature (30°C up to 40°C).

From a microbiological point of view, the medicinal product should be used immediately after reconstitution. If not used immediately, in-use storage times and conditions prior to use are

the responsibility of the user and would normally not be longer than as stated above, unless reconstitution has taken place in controlled and validated aseptic conditions.

Any unused reconstituted product stored at room temperature ($\leq 30^{\circ}\text{C}$) or up to 40°C for more than 4 hours should be discarded.

6.4 Special precautions for storage

Store in refrigerator ($2^{\circ}\text{C} - 8^{\circ}\text{C}$).

Do not freeze.

Keep the vial in the outer carton in order to protect from light.

For storage at room temperature ($\leq 30^{\circ}\text{C}$) or up to 40°C and storage conditions after reconstitution of the medicinal product, see section 6.3.

6.5 Nature and contents of container

Each pack of NovoEight® 250 IU, 500 IU and 1000 IU powder and solvent for solution for injection contains:

- 1 glass vial (type I) with powder and chlorobutyl rubber stopper
- 1 sterile vial adapter for reconstitution
- 1 pre-filled syringe of 4 ml solvent with backstop (polypropylene), a rubber plunger (bromobutyl) and a syringe cap with a stopper (bromobutyl)
- 1 plunger rod (polypropylene).

HARUS DENGAN RESEP DOKTER

Reg. No.: DKXXXXXXXXXXXXX (250 IU)

DKXXXXXXXXXXXXX (500 IU)

DKXXXXXXXXXXXXX (1000 IU)

7. Manufactured by:

Novo Nordisk A/S

Hallas Allé

DK-4400 Kalundborg

Denmark

Released by:

Novo Nordisk A/S

Novo Allé

DK-2880 Bagsværd

Denmark

Registered by:

PT Beta Pharmacon

Indonesia

Distributed by:

PT Anugrah Argon Medica

Indonesia



Based on approval date:

NovoEight® is a trademark owned by Novo Nordisk Health Care AG, Switzerland.

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Instructions on how to use NovoEight®

READ THESE INSTRUCTIONS CAREFULLY BEFORE USING NOVOEIGHT®.

NovoEight® is supplied as a powder. Before injection (administration) it must be reconstituted with the solvent supplied in the syringe. The solvent is a sodium chloride 9 mg/ml (0.9%) solution. The reconstituted NovoEight® must be injected into your vein (intravenous injection). The equipment in this package is designed to reconstitute and inject NovoEight®.

You will also need an infusion set (tubing and butterfly needle), sterile alcohol swabs, gauze pads and plasters. These devices are not included in the NovoEight® package.

**Do not use the equipment without proper training from your doctor or nurse.
Always wash your hands and ensure that the area around you is clean.**

When you prepare and inject medicine directly into the veins, it is important to **use a clean and germ free (aseptic) technique**. Improper technique can introduce germs that can infect the blood.

Do not open the equipment until you are ready to use it.

Do not use the equipment if it has been dropped, or if it is damaged. Use a new package instead.

Do not use the equipment if it is expired. Use a new package instead. The expiry date is printed after 'Expiry' on the outer carton, on the vial, on the vial adapter, and on the pre-filled syringe.

Do not use the equipment if you suspect it is contaminated. Use a new package instead.

Do not dispose of any of the items until after you have injected the reconstituted solution.

The equipment is for single use only.

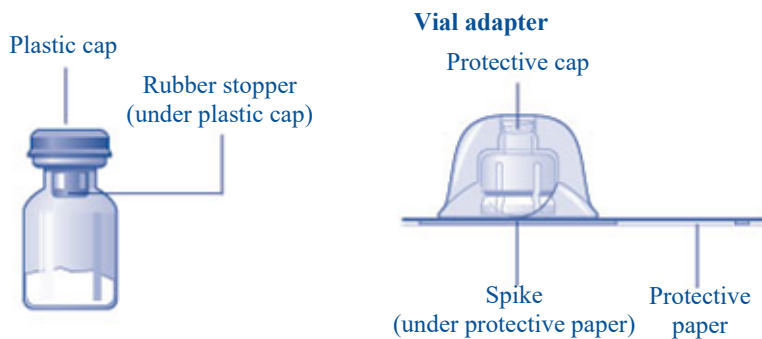
Contents

The package contains:

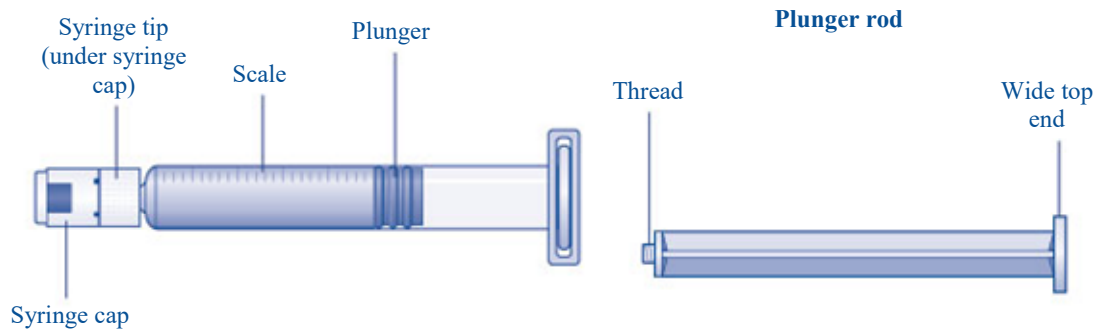
- 1 vial with NovoEight® powder
- 1 vial adapter
- 1 pre-filled syringe with solvent
- 1 plunger rod (placed under the syringe)

Overview

Vial with NovoEight® powder

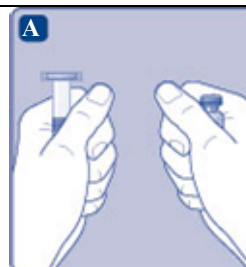


Pre-filled syringe with solvent

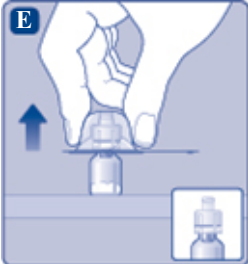
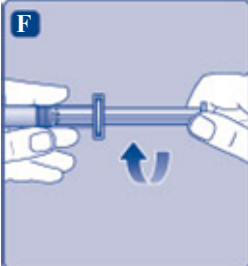
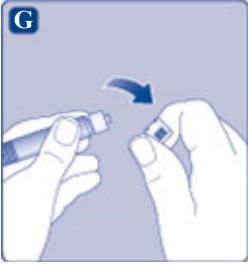
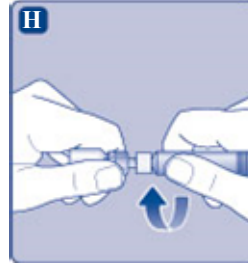


1. Prepare the vial and the syringe

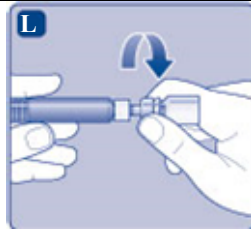
- **Take out the number of NovoEight® packages you need.**
- **Check the expiry date.**
- **Check the name, strength and colour** of the package, to make sure it contains the correct product.
- **Wash your hands** and dry them properly using a clean towel or air dry.
- Take the vial, the vial adapter and the pre-filled syringe out of the carton. **Leave the plunger rod untouched in the carton.**
- **Bring the vial and the pre-filled syringe to room temperature.** You can do this by holding them in your hands until they feel as warm as your



hands. • Do not use any other way to heat the vial and pre-filled syringe.	
• Remove the plastic cap from the vial. If the plastic cap is loose or missing, do not use the vial. • Wipe the rubber stopper with a sterile alcohol swab and allow it to air dry for a few seconds before use to ensure that it is as germ free as possible. • Do not touch the rubber stopper with your fingers as this can transfer germs.	
2. Attach the vial adapter • Remove the protective paper from the vial adapter. If the protective paper is not fully sealed or if it is broken, do not use the vial adapter. Do not take the vial adapter out of the protective cap with your fingers. If you touch the spike on the vial adapter, germs from your fingers can be transferred.	
• Place the vial on a flat and solid surface. • Turn over the protective cap, and snap the vial adapter onto the vial. Once attached, do not remove the vial adapter from the vial.	

Lightly squeeze the protective cap with your thumb and index finger as shown. Remove the protective cap from the vial adapter. Do not lift the vial adapter from the vial when removing the protective cap.	
3. Attach the plunger rod and the syringe - Grasp the plunger rod by the wide top end and take it out of the carton. Do not touch the sides or the thread of the plunger rod. If you touch the sides or the thread, germs from your fingers can be transferred. Immediately connect the plunger rod to the syringe by turning it clockwise into the plunger inside the pre-filled syringe until resistance is felt.	
Remove the syringe cap from the pre-filled syringe by bending it down until the perforation breaks. Do not touch the syringe tip under the syringe cap. If you touch the syringe tip, germs from your fingers can be transferred. If the syringe cap is loose or missing, do not use the pre-filled syringe.	
Screw the pre-filled syringe securely onto the vial adapter until resistance is felt.	

4. Reconstitute the powder with the solvent • Hold the pre-filled syringe slightly tilted with the vial pointing downwards. • Push the plunger rod to inject all the solvent into the vial.	
• Keep the plunger rod pressed down and swirl the vial gently until all the powder is dissolved. Do not shake the vial as this will cause foaming. • Check the reconstituted solution. It must be clear to slightly opalescent (slightly unclear). If you notice visible particles or discolouration, do not use it. Use a new package instead.	
NovoEight® is recommended to be used immediately after it has been reconstituted. This is because if left, the medicine may no longer be sterile and could cause infections. If you cannot use the reconstituted NovoEight® solution immediately, it should be used within 4 hours when stored at room temperature or up to 40°C and within 24 hours when stored at 2°C – 8°C. Store the reconstituted product in the vial. Do not freeze reconstituted NovoEight® solution or store it in syringes. Do not store the solution without your doctor's advice. Keep reconstituted NovoEight® solution out of direct light.  If your dose requires more than one vial, repeat steps A to J with additional vials, vial adapters and pre-filled syringes until you have reached your required dose.	

• Keep the plunger rod pushed completely in. • Turn the syringe with the vial upside down. • Stop pushing the plunger rod and let it move back on its own while the reconstituted solution fills the syringe. • Pull the plunger rod slightly downwards to draw the reconstituted solution into the syringe. • In case you only need part of the entire vial, use the scale on the syringe to see how much reconstituted solution you withdraw, as instructed by your doctor or nurse. If, at any point, there is too much air in the syringe, inject the air back into the vial. • While holding the vial upside down, tap the syringe gently to let any air bubbles rise to the top. • Push the plunger rod slowly until all air bubbles are gone.	
• Unscrew the vial adapter with the vial. • Do not touch the syringe tip. If you touch the syringe tip, germs from your fingers can be transferred.	
5. Inject the reconstituted solution NovoEight® is now ready to be injected into your vein. • Inject the reconstituted solution as instructed by your doctor or nurse. • Inject slowly over 2 to 5 minutes. • Do not mix NovoEight® with any other intravenous infusions or medicines. Injecting NovoEight® via needleless connectors for intravenous (IV) catheters Caution: The pre-filled syringe is made of glass and is designed to be compatible with standard luer-lock connections. Some needleless connectors with an internal spike are	

incompatible with the pre-filled syringe. This incompatibility may prevent administration of the medicine and/or result in damage to the needleless connector.

Injecting the solution via a central venous access device (CVAD) such as a central venous catheter or a subcutaneous port:

- Use a clean and germ free (aseptic) technique. Follow the instructions for proper use for your connector and CVAD in consultation with your doctor or nurse.
- Injecting into a CVAD may require using a sterile 10 ml plastic syringe for withdrawal of the reconstituted solution. This should be done right after step J.
- If the CVAD line needs to be flushed before or after NovoEight® injection, use sodium chloride 9 mg/ml solution for injection.

Disposal

- **After injection, safely dispose** of all unused NovoEight® solution, the syringe with the infusion set, the vial with the vial adapter and other waste materials as instructed by your pharmacist.

Do not throw it out with the ordinary household waste.



Do not disassemble the equipment before disposal.
Do not reuse the equipment.

Brosur kemasan: Informasi untuk pengguna

NovoEight®

250 IU serbuk dan pelarut untuk larutan injeksi

500 IU serbuk dan pelarut untuk larutan injeksi

1000 IU serbuk dan pelarut untuk larutan injeksi

turoctocog alfa (faktor koagulasi VIII manusia (rDNA))

Bacalah seluruh brosur ini dengan teliti sebelum Anda mulai menggunakan obat ini karena brosur ini terdapat informasi yang penting untuk Anda.

- Simpan brosur ini. Anda mungkin perlu membacanya lagi.
- Jika Anda memiliki pertanyaan lebih lanjut, tanyakan kepada dokter Anda.
- Obat ini hanya diresepkan untuk Anda. Jangan memberikannya kepada orang lain. Obat ini mungkin membahayakan mereka, meskipun tanda-tanda penyakit mereka sama dengan yang Anda alami.
- Jika Anda mengalami efek samping apapun, bicarakan dengan dokter Anda. Termasuk kemungkinan efek samping apapun yang tidak tercantum dalam brosur ini. Lihat bagian 4.

Apa yang terdapat dalam brosur ini

1. Apa itu NovoEight® dan untuk apa kegunaannya
2. Apa yang Anda perlu ketahui sebelum menggunakan NovoEight®
3. Bagaimana cara menggunakan NovoEight®
4. Efek samping yang mungkin dirasakan
5. Bagaimana cara menyimpan NovoEight®
6. Isi kemasan dan informasi lain

1. Apa itu NovoEight® dan untuk apa kegunaannya

NovoEight® mengandung zat aktif turoctocog alfa, faktor koagulasi VIII manusia. Faktor VIII adalah protein yang secara alami berada dalam darah yang membantu pembekuan darah.

NovoEight® digunakan untuk mengobati dan mencegah pendarahan pada pasien dengan hemofilia A (defisiensi bawaan faktor VIII) dan dapat digunakan untuk semua kelompok usia. Pada pasien dengan hemofilia A, faktor VIII tidak ada atau tidak bekerja dengan baik. NovoEight® menggantikan faktor VIII yang rusak atau hilang ini dan membantu darah membentuk bekuan di lokasi pendarahan.

2. Apa yang Anda perlu ketahui sebelum menggunakan NovoEight®

Jangan menggunakan NovoEight®:

- jika Anda alergi terhadap zat aktif atau salah satu zat lain dari obat ini (yang tercantum di bagian 6)
- jika Anda alergi terhadap protein hamster.

Jangan menggunakan NovoEight® jika salah satu hal di atas terjadi pada Anda. Jika Anda tidak yakin, bicarakan dengan dokter Anda sebelum menggunakan obat ini.

Peringatan dan pencegahan

Bicarakan dengan dokter Anda sebelum menggunakan NovoEight®.

Terdapat kemungkinan yang jarang bahwa Anda mungkin mengalami reaksi anafilaksis (reaksi alergi yang parah dan tiba-tiba) terhadap NovoEight®. Tanda-tanda awal dari reaksi alergi adalah ruam, gatal-gatal, bilur-bilur, gatal umum, pembengkakan bibir dan lidah, kesulitan bernapas, sesak napas, dada sesak, perasaan tidak sehat secara umum dan pusing.

Jika salah satu dari gejala-gejala tersebut terjadi, hentikan segera penyuntikan dan hubungi dokter Anda.

Bicarakan dengan dokter Anda, jika Anda merasa bahwa pendarahan Anda tidak terkendali dengan dosis yang Anda terima, karena terdapat beberapa alasan untuk ini. Beberapa orang yang menggunakan obat ini dapat mengembangkan antibodi terhadap faktor VIII (yang juga dikenal sebagai inhibitor faktor VIII). Inhibitor faktor VIII membuat NovoEight® kurang efektif dalam mencegah atau mengendalikan pendarahan. Jika hal tersebut terjadi, Anda mungkin memerlukan dosis NovoEight® yang lebih tinggi atau obat yang berbeda untuk mengontrol pendarahan Anda. Jangan meningkatkan dosis total NovoEight® untuk mengontrol pendarahan Anda tanpa berbicara dengan dokter Anda. Anda seharusnya memberitahu dokter Anda jika Anda sebelumnya telah menerima pengobatan dengan produk faktor VIII, terutama jika terdapat inhibitor, karena mungkin ada risiko yang lebih tinggi bahwa hal tersebut terjadi lagi.

Pembentukan inhibitor (antibodi) merupakan komplikasi yang dikenal yang dapat terjadi selama pengobatan dengan semua obat-obatan faktor VIII. Inhibitor ini, terutama di kadar yang tinggi, menghentikan pengobatan yang bekerja dengan baik dan Anda atau anak Anda akan dipantau secara hati-hati dalam pembentukan inhibitor ini. Jika pendarahan Anda atau anak Anda tidak dapat dikendalikan dengan NovoEight®, segera beritahu dokter Anda.

Obat-obatan lain dan NovoEight®

Beritahu dokter Anda jika Anda sedang menggunakan, baru-baru ini telah menggunakan atau mungkin menggunakan obat-obatan lain.

Kehamilan dan menyusui

Jika Anda sedang hamil atau menyusui, berpikir bahwa Anda mungkin hamil atau berencana untuk punya anak, mintalah saran kepada dokter Anda sebelum menggunakan obat ini.

Mengemudi dan menggunakan mesin

NovoEight® tidak memiliki pengaruh terhadap kemampuan Anda untuk mengemudi dan menggunakan mesin.

NovoEight® mengandung natrium

Obat ini mengandung 30,5 mg natrium (komponen utama dari garam masak/meja) per vial yang telah direkonstitusi. Hal tersebut setara dengan 1,5% dari konsumsi maksimum natrium yang direkomendasikan untuk orang dewasa.

Bicarakan dengan dokter Anda jika Anda sedang menjalani diet natrium terkontrol.

3. Bagaimana cara menggunakan NovoEight®

Pengobatan dengan NovoEight® akan dimulai oleh dokter yang berpengalaman dalam pengobatan pasien dengan hemofilia A. Selalu gunakan obat ini sama dengan yang diberitahukan oleh dokter Anda. Periksa dengan dokter Anda jika Anda tidak yakin.

Dokter Anda akan menghitung dosis untuk Anda. Hal tersebut akan tergantung pada berat badan Anda dan obat apa yang sedang Anda gunakan.

Pencegahan pendarahan

Dosis NovoEight® biasanya adalah 20 hingga 50 unit internasional (IU) per kg berat badan. Penyuntikan dilakukan setiap 2 hingga 3 hari. Dalam beberapa kasus, terutama pada pasien yang lebih muda, penyuntikan yang lebih sering atau dosis yang lebih tinggi mungkin diperlukan.

Pengobatan pendarahan

Dosis NovoEight® dihitung tergantung pada berat badan Anda dan kadar faktor VIII yang akan dicapai. Target kadar faktor VIII akan tergantung pada tingkat keparahan dan lokasi pendarahan.

Penggunaan pada anak-anak dan remaja

NovoEight® dapat digunakan pada anak-anak dari segala usia. Pada anak-anak (di bawah usia 12 tahun) dosis yang lebih tinggi atau penyuntikan yang lebih sering mungkin diperlukan. Remaja (di atas usia 12 tahun) dapat menggunakan dosis yang sama dengan orang dewasa.

Bagaimana NovoEight® diberikan

NovoEight® diberikan sebagai injeksi ke pembuluh darah vena. Lihat 'Instruksi bagaimana cara menggunakan NovoEight®' untuk informasi lebih lanjut.

Jika Anda menggunakan NovoEight® lebih dari yang seharusnya

Jika Anda menggunakan NovoEight® lebih dari yang seharusnya, beritahu dokter Anda atau pergi langsung ke rumah sakit.

Jika Anda lupa menggunakan NovoEight®

Anda seharusnya menghubungi dokter Anda jika Anda telah melewatkan dosis Anda dan tidak tahu bagaimana cara untuk mengkompensasinya.

Jika Anda berhenti menggunakan NovoEight®

Jika Anda berhenti menggunakan NovoEight®, Anda mungkin tidak terlindungi lagi dari pendarahan atau pendarahan saat ini mungkin tidak berhenti. Jangan berhenti menggunakan NovoEight® tanpa konsultasi dengan dokter Anda.

Jika Anda memiliki pertanyaan lebih lanjut tentang penggunaan obat ini, tanyakan kepada dokter Anda.

4. Efek samping yang mungkin dirasakan

Seperti semua obat-obatan, obat ini dapat menyebabkan efek samping, meskipun tidak semua orang mengalaminya. Efek samping berikut dapat terjadi dengan obat ini.

Jika reaksi alergi yang tiba-tiba dan parah (reaksi anafilaksis) terjadi (sangat jarang), penyuntikan harus segera dihentikan. Anda harus segera menghubungi dokter Anda jika Anda mengalami salah satu gejala awal berikut:

- kesulitan bernapas, napas yang pendek atau sesak napas
- dada sesak
- pembengkakan bibir dan lidah
- ruam, gatal-gatal, bilur-bilur atau gatal secara umum
- merasa pusing atau kehilangan kesadaran
- tekanan darah yang rendah (kulit pucat dan dingin, detak jantung cepat).

Gejala yang parah, termasuk kesulitan menelan atau bernapas dan wajah atau tangan merah atau bengkak, memerlukan pengobatan darurat segera.

Jika Anda mengalami reaksi alergi yang parah, dokter Anda mungkin mengganti obat Anda.

Untuk anak-anak yang sebelumnya tidak diobati dengan obat-obatan Faktor VIII, antibodi inhibitor (lihat bagian 2) mungkin sangat umum terbentuk (lebih dari 1 dari 10 pasien); tetapi pasien yang telah menerima pengobatan sebelumnya dengan Faktor VIII (lebih dari 150 hari pengobatan) risikonya adalah tidak umum (kurang dari 1 dari 100 pasien). Jika hal tersebut terjadi pada Anda atau anak-anak Anda, obat-obatan Anda mungkin berhenti bekerja dengan benar dan Anda atau anak Anda mungkin mengalami pendarahan terus-menerus. Jika hal tersebut terjadi, Anda seharusnya segera menghubungi dokter Anda.

Efek samping yang umum (mungkin terjadi hingga 1 dari 10 orang)

- Tes darah menunjukkan perubahan di fungsi hati
- reaksi (kemerahan dan gatal-gatal) di sekitar lokasi di mana Anda menyuntikkan obat.

Efek samping yang umum (mungkin terjadi hingga 1 dari 10 orang) pada pasien yang sebelumnya belum pernah diobati dengan obat-obatan faktor VIII

- kulit memerah
- peradangan pembuluh darah vena
- pendarahan ke dalam ruang sendi
- pendarahan di jaringan otot
- batuk
- kemerahan di sekitar lokasi di mana Anda menempatkan kateter
- muntah.

Efek samping yang tidak umum (mungkin terjadi hingga 1 dari 100 orang)

- merasa lelah
- sakit kepala
- merasa pusing
- sulit tidur (insomnia)
- detak jantung cepat
- peningkatan tekanan darah

- gatal-gatal
- demam
- merasa panas
- kekakuan otot
- nyeri otot
- nyeri kaki dan lengan
- pembengkakan kaki dan telapak kaki
- penyakit sendi
- memar
- serangan jantung.

Efek samping pada anak-anak dan remaja

Efek samping yang diamati pada anak-anak dan remaja adalah sama dengan yang diamati pada orang dewasa.

Pelaporan efek samping

Jika Anda mengalami efek samping apapun, bicarakan dengan dokter, apoteker atau perawat Anda. Termasuk efek samping apapun yang mungkin tidak tercantum dalam brosur ini.

5. Bagaimana cara menyimpan NovoEight®

Jauhkan obat ini dari pandangan dan jangkauan anak-anak.

Jangan menggunakan obat ini setelah tanggal kadaluwarsa, yang tercantum setelah tulisan 'Expiry' di karton dan label vial dan *syringe* yang telah terisi. Tanggal kadaluwarsa mengacu di hari terakhir dari bulan itu.

Simpan di lemari es (2°C - 8°C).

Jangan dibekukan.

Simpan vial dalam karton untuk melindungi dari cahaya.

Sebelum direkonstitusi serbuk NovoEight® dapat disimpan di:

- suhu ruangan ($\leq 30^{\circ}\text{C}$) untuk satu periode yang tidak lebih dari 9 bulan
atau
- di atas suhu ruangan (30°C hingga 40°C) untuk satu periode yang tidak lebih dari 3 bulan.

Setelah produk dikeluarkan dari kulkas, produk tidak boleh dikembalikan lagi ke kulkas.

Catatlah tanggal awal penyimpanan dan suhu penyimpanan di karton produk.

Setelah NovoEight® direkonstitusi, produk seharusnya segera digunakan. Jika Anda tidak dapat segera menggunakan NovoEight® yang telah direkonstitusi, maka produk seharusnya digunakan dalam waktu:

- 24 jam disimpan di suhu 2°C - 8°C
- 4 jam disimpan di suhu $\leq 30^{\circ}\text{C}$, untuk produk yang telah disimpan untuk satu periode tidak lebih dari 9 bulan di suhu ruangan ($\leq 30^{\circ}\text{C}$)

- 4 jam dengan disimpan di suhu hingga 40°C, untuk produk yang telah disimpan untuk satu periode tidak lebih dari 3 bulan di atas suhu ruangan (30°C hingga 40°C).

Simpan produk yang telah direkonstitusi dalam vial. Jika tidak langsung digunakan, obat mungkin tidak lagi steril dan dapat menyebabkan infeksi. Jangan menyimpan larutan tanpa saran dokter Anda.

Serbuk dalam vial adalah serbuk putih atau sedikit kuning. Jangan menggunakan serbuk jika telah berubah warna.

Larutan yang telah direkonstitusi akan terlihat bening hingga sedikit transparan. Jangan menggunakan obat ini jika larutan terlihat keruh atau terdapat partikel yang terlihat.

Jangan membuang obat-obatan melalui pembuangan air limbah atau sampah rumah tangga. Tanyakan kepada apoteker Anda bagaimana cara membuang obat-obatan yang tidak lagi digunakan. Langkah-langkah ini akan membantu melindungi lingkungan.

6. Isi kemasan dan informasi lain

Apa yang terkandung dalam NovoEight®

- Zat aktifnya adalah turoctocog alfa (faktor koagulasi VIII manusia (rDNA)). Setiap vial NovoEight® mengandung turoctocog alfa sebanyak 250, 500 atau 1000 IU.
- Zat lainnya adalah L-histidin, sukrosa, polisorbitat 80, natrium klorida, L-metionin, kalsium klorida dihidrat, natrium hidroksida dan asam hidroklorida.
- Zat dalam pelarut adalah natrium klorida dan air untuk injeksi.

Setelah direkonstitusi dengan pelarut yang telah tersedia (larutan injeksi natrium klorida 9 mg/ml (0,9%)), larutan yang siap untuk disuntikkan mengandung turoctocog alfa 62,5, 125 atau 250 IU per ml (berdasarkan kekuatan turoctocog alfa, yaitu 250, 500 atau 1000 IU).

Seperti apa NovoEight® dan isi kemasan

NovoEight® adalah serbuk dan pelarut untuk larutan injeksi.

Setiap kemasan NovoEight® berisi sebuah vial dengan serbuk berwarna putih atau agak kuning, sebuah *syringe* yang telah terisi 4 ml larutan yang jernih tidak berwarna, sebuah *plunger rod* dan sebuah *vial adapter*.

HARUS DENGAN RESEP DOKTER

Reg. No.: DKIXXXXXXXXXXXXX (250 IU)

DKIXXXXXXXXXXXXX (500 IU)

DKIXXXXXXXXXXXXX (1000 IU)

Diproduksi oleh:

Novo Nordisk A/S

Hallas Allé

DK-4400 Kalundborg, Denmark

Dirilis oleh:

Novo Nordisk A/S

STF APR 2020

Novo Alle
DK-2880 Bagsværd, Denmark

Didaftarkan oleh:

PT Beta Pharmacon
Indonesia

Didistribusikan oleh:

PT Anugrah Argon Medica
Indonesia

Berdasarkan persetujuan tanggal:

NovoEight® adalah merek dagang yang dimiliki oleh Novo Nordisk Health Care AG, Swiss.

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Novo Nordisk A/S

Instruksi bagaimana cara menggunakan NovoEight®

BACALAH BROSUR INI DENGAN TELITI SEBELUM MENGGUNAKAN NOVOEIGHT®. NovoEight® tersedia dalam bentuk serbuk. Sebelum penyuntikan (pemberian), NovoEight® harus direkonstitusi dengan pelarut yang tersedia dalam *syringe*. Pelarut adalah larutan natrium klorida 9 mg/ml (0,9%). NovoEight® yang telah direkonstitusi harus disuntikkan ke pembuluh darah vena Anda (suntikan intravena). Peralatan dalam kemasan ini didesain untuk merekonstitusi dan menyuntikkan NovoEight®. Anda akan juga memerlukan set infus (tabung dan jarum kupu-kupu), penyeka alkohol steril, kain kassa dan plester. Perangkat ini tidak termasuk dalam paket NovoEight®.

Jangan menggunakan peralatan tanpa pelatihan yang tepat dari dokter atau perawat Anda.

Selalu cuci tangan Anda dan pastikan bahwa area di sekitar Anda bersih.

Ketika Anda mempersiapkan dan menyuntikkan obat langsung ke pembuluh darah vena, penting untuk **menggunakan teknik yang bersih dan bebas kuman (aseptik)**. Teknik yang tidak tepat dapat menyebabkan darah terinfeksi dengan kuman.

Jangan membuka peralatan hingga Anda siap untuk menggunakannya.

Jangan menggunakan peralatan jika telah jatuh, atau jika telah rusak. Gunakan kemasan baru sebagai gantinya.

Jangan menggunakan peralatan yang telah kadaluwarsa. Gunakan kemasan baru sebagai gantinya. Tanggal kadaluwarsa tertera setelah kata 'Expiry' di karton luar, vial, *vial adapter* dan *syringe* yang telah terisi.

Jangan menggunakan peralatan jika Anda menduga telah terkontaminasi. Gunakan kemasan baru sebagai gantinya.

Jangan membuang salah satu item hingga Anda telah menyuntikkan larutan yang telah direkonstitusi.

Peralatan tersebut adalah hanya untuk sekali pakai.

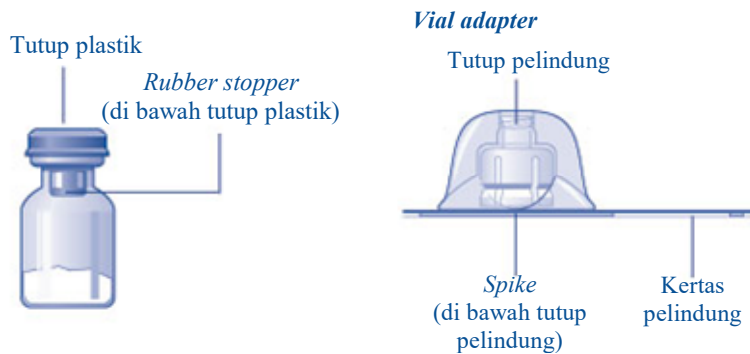
Isi

Kemasan ini berisi:

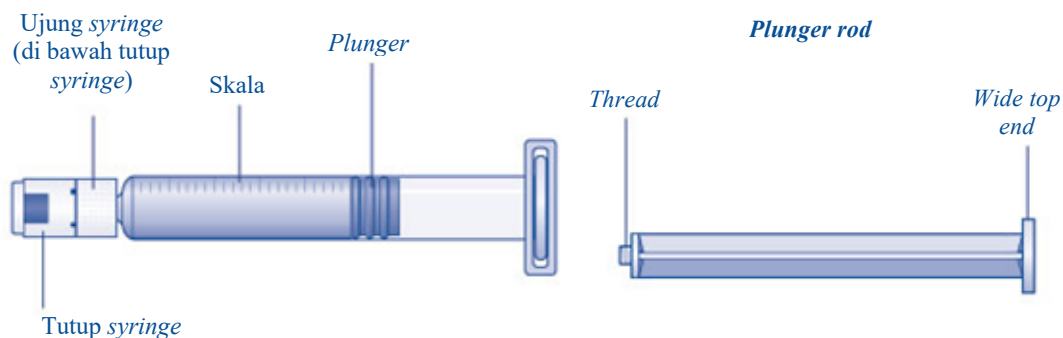
- 1 vial serbuk NovoEight®
- 1 *vial adapter*
- 1 *syringe* yang telah terisi pelarut
- 1 *plunger rod* (ditempatkan di bawah *syringe*)

Gambaran umum

Vial dengan serbuk NovoEight®

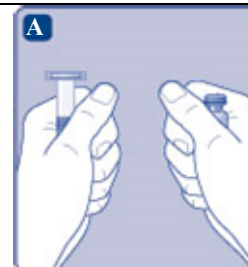


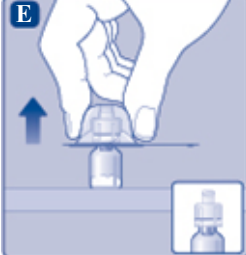
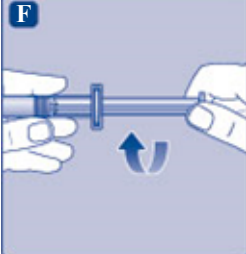
Syringe yang sudah terisi pelarut

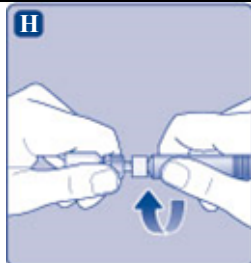


1. Mempersiapkan vial dan syringe

- Keluarkan jumlah kemasan NovoEight® yang Anda perlukan.
- Periksa tanggal kadaluarsa.
- Periksa nama, kekuatan dan warna kemasan, untuk memastikan berisi produk yang benar.
- Cuci tangan Anda dan keringkan dengan baik menggunakan handuk bersih atau udara kering.
- Keluarkan vial, vial adapter dan syringe yang telah terisi dari karton. **Biarkan plunger rod tetap tak tersentuh di dalam karton.**
- Bawa vial dan syringe yang telah terisi ke dalam suhu ruangan. Anda dapat melakukan ini dengan menggenggamnya di tangan Anda hingga produk terasa hangat sama dengan tangan Anda.
- Jangan menggunakan cara lain untuk menghangatkan vial dan syringe yang telah terisi.



• Lepaskan tutup plastik dari vial. Jika tutup plastik longgar atau hilang, jangan menggunakan vial. • Usap <i>rubber stopper</i> dengan penyeka alkohol steril dan biarkan mengering selama beberapa detik sebelum digunakan untuk memastikan telah bebas kuman. • Jangan menyentuh <i>rubber stopper</i> dengan jari-jari Anda karena hal tersebut dapat menyebabkan kuman berpindah.	
2. Memasang <i>vial adapter</i> • Lepaskan kertas pelindung dari <i>vial adapter</i>. Jika kertas pelindung tidak sepenuhnya tertutup atau jika rusak, jangan menggunakan <i>vial adapter</i> ini. Jangan mengeluarkan <i>vial adapter</i> dari tutup pelindung dengan jari-jari anda. Jika Anda menyentuh <i>spike</i> di <i>vial adapter</i>, kuman dari jari-jari Anda dapat mungkin dapat berpindah.	
• Tempatkan vial di permukaan yang datar dan padat. • Balikkan tutup pelindung, dan pasang <i>vial adapter</i> ke vial. Setelah terpasang, jangan melepaskan lagi <i>vial adapter</i> dari vial.	
• Tekan perlahan tutup pelindung dengan ibu jari dan jari telunjuk Anda seperti yang ditunjukkan di gambar. Lepaskan tutup pelindung dari <i>vial adapter</i>. Jangan mengangkat <i>vial adapter</i> dari vial ketika melepas tutup pelindung.	
3. Memasang <i>plunger rod</i> dan <i>syringe</i> • Pegang <i>plunger rod</i> di <i>wide top end</i> dan keluarkan dari karton. Jangan menyentuh seluruh bagian sisi atau <i>thread</i> dari <i>plunger rod</i>. Jika Anda menyentuh bagian sisi atau <i>thread</i>, kuman dari jari-jari Anda dapat berpindah. • Segera sambungkan <i>plunger rod</i> ke <i>syringe</i> dengan	

memutarnya searah jarum jam ke <i>plunger</i> di dalam <i>syringe</i> yang telah terisi hingga terasa telah terpasang dengan erat.	
• Lepaskan tutup <i>syringe</i> dari <i>syringe</i> yang telah terisi dengan menekuk ke bawah hingga terlepas. • Jangan menyentuh ujung <i>syringe</i> di bawah tutup <i>syringe</i>. Jika Anda menyentuh ujung <i>syringe</i>, kuman dari jari-jari Anda dapat berpindah. Jika tutup <i>syringe</i> longgar atau hilang, jangan menggunakan <i>syringe</i> yang telah terisi ini.	
• Putar <i>syringe</i> yang telah terisi dengan aman ke <i>vial adapter</i> hingga benar-benar terasa erat.	
4. Merekonstitusi serbuk ke pelarut • Pegang <i>syringe</i> yang telah terisi agak sedikit miring dengan <i>vial</i> mengarah ke bawah. • Tekan <i>plunger rod</i> untuk menyuntikkan seluruh pelarut ke dalam <i>vial</i>.	
• Tetap tekan <i>plunger rod</i> ke bawah dan putar <i>vial</i> secara perlahan hingga seluruh serbuk larut. Jangan mengocok <i>vial</i> karena akan menimbulkan busa. • Periksa larutan yang telah direkonstitusi. Larutan harus jernih hingga sedikit transparan (sedikit tidak jernih). Jika Anda melihat terdapat partikel yang muncul atau perubahan warna, jangan menggunakannya. Gunakan kemasan baru sebagai gantinya.	
NovoEight® direkomendasikan untuk digunakan segera setelah direkonstitusi. Hal tersebut disebabkan karena jika dibiarkan, obat mungkin tidak lagi steril dan dapat menyebabkan infeksi.	

Jika Anda tidak dapat segera menggunakan larutan NovoEight® yang telah direkonstitusi, maka obat seharusnya digunakan dalam waktu 4 jam jika ketika disimpan di suhu ruangan atau hingga 40°C dan dalam waktu 24 jam ketika disimpan di suhu 2°C - 8°C. Simpan produk yang telah direkonstitusi di vial.

Jangan membekukan larutan NovoEight® yang telah direkonstitusi atau menyimpannya dalam syringe.

Jangan menyimpan larutan tanpa saran dokter Anda.

Jauhkan larutan NovoEight® yang telah direkonstitusi dari cahaya langsung.



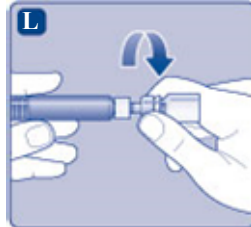
Jika dosis yang Anda perlukan lebih dari satu vial, ulangi langkah **A** hingga **J** dengan tambahan vial, *vial adapter* dan *syringe* yang telah terisi hingga dosis yang Anda perlukan tercapai.

- **Tetap tekan *plunger rod* hingga sepenuhnya berada di dalam.**
- **Putar *syringe* dengan vial terbalik.**
- **Berhenti menekan *plunger rod* dan biarkan bergerak kembali sendiri ke belakang** sementara larutan yang telah direkonstitusi mengisi *syringe*.
- **Tarik *plunger rod* sedikit ke bawah** untuk menarik larutan yang direkonstitusi ke dalam *syringe*.
- **Jika Anda hanya memerlukan sebagian dari keseluruhan isi vial, gunakan skala di *syringe* untuk melihat berapa banyak larutan yang telah direkonstitusi yang Anda tarik, seperti yang diinstruksikan oleh dokter atau perawat Anda.**

Jika, di tahap apapun, terdapat terlalu banyak udara dalam *syringe*, suntikkan udara kembali ke dalam vial.

- Sambil memegang vial terbalik, ketuk *syringe* secara perlahan sehingga gelembung udara naik ke atas.
- **Dorong *plunger rod* perlahan-lahan hingga semua gelembung udara hilang.**



• Lepaskan <i>vial adapter</i> dari vial. • Jangan menyentuh ujung <i>syringe</i>. Jika Anda menyentuh ujung <i>syringe</i>, kuman dari jari-jari Anda dapat berpindah.	
5. Menyuntikkan larutan yang telah direkonstitusi NovoEight® sekarang siap untuk disuntikkan ke dalam pembuluh darah vena Anda. • Suntikkan larutan yang telah direkonstitusi seperti yang diinstruksikan oleh dokter atau perawat Anda. • Suntikkan perlahan-lahan selama 2 hingga 5 menit. • Jangan mencampur NovoEight® dengan larutan infus intravena atau obat-obatan lain. Menyuntikkan NovoEight® melalui konektor tanpa jarum untuk kateter intravena (IV) Peringatan: <i>Syringe</i> yang telah terisi terbuat dari kaca dan didesain agar kompatibel dengan koneksi <i>luer-lock</i> standar. Beberapa konektor tanpa jarum dengan <i>spike</i> internal tidak kompatibel dengan <i>syringe</i> yang telah terisi. Ketidakcocokan ini mungkin mencegah pemberian obat dan/atau mengakibatkan kerusakan di konektor tanpa jarum. Menyuntikkan larutan melalui <i>central venous access device</i> (CVAD) seperti kateter vena sentral atau <i>port</i> subkutan: • Gunakan teknik bersih dan bebas kuman (aseptik). Ikuti instruksi untuk penggunaan yang tepat untuk konektor dan CVAD Anda dengan berkonsultasi dengan dokter atau perawat Anda. • Penyuntikan ke CVAD mungkin memerlukan penggunaan <i>syringe</i> plastik steril 10 ml untuk penarikan larutan yang telah direkonstitusi. Hal tersebut seharusnya dilakukan tepat setelah langkah J. • Jika saluran CVAD perlu dicuci sebelum atau setelah penyuntikan NovoEight®, gunakan larutan injeksi natrium klorida 9 mg/ml.	
Pembuangan • Setelah penyuntikan, buang dengan aman semua larutan NovoEight® yang tidak terpakai, <i>syringe</i> dengan set infus, vial dengan <i>vial adapter</i> dan zat limbah lainnya seperti yang diinstruksikan oleh apoteker Anda. Jangan membuangnya ke limbah rumah tangga biasa.	
Jangan membongkar peralatan sebelum dibuang. Jangan menggunakan kembali peralatan.	