**INDICATIONS AND USAGE**

Novoeight® is an Antihemophilic Factor (Recombinant) indicated for use in adults and children with hemophilia A for:

- Control and prevention of bleeding
- Perioperative management
- Routine prophylaxis to prevent or reduce the frequency of bleeding episodes.

Novoeight® is not indicated for the treatment of von Willebrand disease. (1)

**DOSAGE AND ADMINISTRATION**

For intravenous injection after reconstitution only (2)

- Each vial of Novoeight® contains the labeled amount of recombinant Factor VIII in international units (IU). (2)
- The required dosage is determined using the following formula: Dosage Required (IU) = Body Weight (kg) x Desired Factor VIII Increase (IU/dL or % normal) x 0.5 (IU/kg per IU/dL)
- Frequency of Novoeight® administration is determined by the type of bleeding episode and the recommendation of the treating physician. (2.1)

**DOSAGE FORMS AND STRENGTHS**

Novoeight® is available as a lyophilized powder in single-use vials of 250, 500, 1000, 1500, 2000 and 3000 international units. (3)

**CONTRAINDICATIONS**

Do not use in patients who have had life-threatening hypersensitivity reactions, including anaphylaxis, to Novoeight® or its components, including hamster proteins. (4)

**WARNINGS AND PRECAUTIONS**

- Anaphylaxis and severe hypersensitivity reactions are possible. Patients may develop hypersensitivity to hamster proteins, which are present in trace amounts in the product. Should symptoms occur, discontinue Novoeight® and administer appropriate treatment. (5.1)
- Development of activity-neutralizing antibodies (inhibitors) may occur. If expected plasma factor VIII activity levels are not attained, or if bleeding is not controlled with an appropriate dose, perform an assay that measures factor VIII inhibitor concentration. (5.2, 5.3)

**ADVERSE REACTIONS**

The most frequently reported adverse reactions (≥ 0.5%) were injection site reactions, increased hepatic enzymes, and pyrexia. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Novo Nordisk Inc. at 1-844-303-4448 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

**USE IN SPECIFIC POPULATIONS**

- Pediatric Use: Clearance (based on per kg body weight) is higher in children. Higher or more frequent dosing may be needed. (6.4)

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

05/2018
Novoeight®, Antihemophilic Factor (Recombinant)

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Novoeight®, Antihemophilic Factor (Recombinant), is indicated for use in adults and children with hemophilia A (congenital factor VIII deficiency or classic hemophilia) for:

- Control and prevention of bleeding episodes
- Perioperative management
- Routine prophylaxis to prevent or reduce the frequency of bleeding episodes

Novoeight® is not indicated for the treatment of von Willebrand disease.

2 DOSAGE AND ADMINISTRATION

2.1 Dose

- Dosage and duration of treatment depend on the severity of the factor VIII deficiency, on the location and extent of bleeding, and on the patient's clinical condition. Careful monitoring of replacement therapy is necessary in cases of major surgery or life-threatening bleeding episodes.
- Each vial of Novoeight® contains the labeled amount of recombinant factor VIII in international units (IU). One IU of factor VIII activity corresponds to the quantity of factor VIII in one milliliter of normal human plasma. The calculation of the required dosage of factor VIII is based on the empirical finding that one IU of factor VIII per kg body weight raises the plasma factor VIII activity by two IU/dL. This relationship causes a factor of 0.5 to be present in the dose calculation formula shown below.
- The required dosage can be determined using the following formula:

\[
\text{Dosage (IU)} = \text{Body Weight (kg)} \times \text{Desired Factor VIII Increase (IU/dL or % of normal)} \times 0.5
\]

The final dose calculated is expressed as IU.
- Use aseptic technique during the reconstitution procedures.
- Always wash hands and ensure that the area is clean before use in the oral cavity or mild muscle or oral bleeding.
- Careful monitoring of replacement therapy is necessary in cases of major surgery or life-threatening bleeding episodes.
- Novoeight®, Antihemophilic Factor (Recombinant), is indicated for use in adults and children with hemophilia A (congenital factor VIII deficiency or classic hemophilia) for:
- Routine prophylaxis to prevent or reduce the frequency of bleeding episodes.

3. Administration

3.1 Intravenous injection after reconstitution only.

- For intravenous injection after reconstitution only.

4. Reconstitution

- Place the vial on a flat and solid surface. While holding the protective paper, gently swirl the Novoeight® solution in the vial with the vial adapter and the syringe attached.
- Turn the plunger rod clockwise until it is secured.
- Place needles in a sharps container after single-use.
- The reconstituted solution should be inspected visually for particulate matter before administration.
- Do not administer Novoeight® intravenously slowly over 2 to 5 minutes.

5. Dosage and duration of treatment depend on the severity of the factor VIII deficiency, on the location and extent of bleeding, and on the patient's clinical condition. Careful monitoring of replacement therapy is necessary in cases of major surgery or life-threatening bleeding episodes. The final dose calculated is expressed as IU.

6. Place the vial on a flat and solid surface. While holding the protective paper, gently swirl the Novoeight® solution in the vial with the vial adapter and the syringe attached.

7. Turn the plunger rod clockwise until it is secured.

8. Pull the rubber stopper out of the vial using a sterile needle. Place the needle in a sharps container after single-use.

9. Place the vial on a flat and solid surface. While holding the protective paper, gently swirl the Novoeight® solution in the vial with the vial adapter and the syringe attached.

10. Insert the needle into the rubber stopper. Place the needle in a sharps container after single-use.

11. Without removing the syringe, gently swirl the Novoeight® vial until all of the powder is dissolved. The reconstituted solution should be inspected visually for particulate matter before administration.

12. Do not administer Novoeight® in the same tubing or container with other medicinal products.

13. Place needles in a sharps container after single-use.

14. Do not use if particulate matter or discoloration is observed.

15. Use the Novoeight® solution immediately. If not, store the solution in the vial with the vial adapter and the syringe attached. Use Novoeight® within 4 hours after reconstitution when stored at 68°F (20°C) or within 2 hours when stored between 66°F (19°C) to 70°F (21°C).

2.2 Preparation and Reconstitution

- Always wash hands and ensure that the area is clean before performing the procedures.
- Use aseptic technique during the reconstitution procedures.
- If the patient uses more than one vial of Novoeight® per injection, reconstitute each vial according to the following instructions.

<table>
<thead>
<tr>
<th>Type of Bleeding Episode</th>
<th>Factor VIII Level Required (IU/dL or % of normal)</th>
<th>Frequency of Doses (hours)</th>
<th>Duration of Therapy (days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor</td>
<td>20-40</td>
<td>12-24</td>
<td>At least 1 day until bleeding resolution is achieved</td>
</tr>
<tr>
<td>Moderate</td>
<td>30-60</td>
<td>12-24</td>
<td>Until pain and acute disability are resolved (approximately 3-4 days)</td>
</tr>
<tr>
<td>Major</td>
<td>60-100</td>
<td>8-24</td>
<td>Until resolution of bleed (approximately 7-10 days)</td>
</tr>
</tbody>
</table>

Perioperative Management

A guide for dosing Novoeight® during surgery (perioperative management) is provided in Table 2. Consideration should be given to maintaining a plasma factor VIII activity level at or above the plasma levels (in % of normal or in IU/dL) outlined in Table 2.

2.3 Administration

For intravenous injection only.

- Accidental needle stick with a needle contaminated with blood can transmit infectious viruses including HIV (AIDS) and hepatitis. Obtain immediate medical attention if injury occurs. Place needles in a sharps container after single-use.
- Do not administer Novoeight® in the same tubing or container with other medicinal products.

3.1 Intravenous injection after reconstitution only.

- Place the vial on a flat and solid surface. While holding the protective paper, gently swirl the Novoeight® solution in the vial with the vial adapter and the syringe attached.

<table>
<thead>
<tr>
<th>Type of Surgery</th>
<th>Factor VIII Level Required (IU/dL or % of normal)</th>
<th>Frequency of Doses (hours)</th>
<th>Duration of Therapy (days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor</td>
<td>30-60</td>
<td>24</td>
<td>At least 1 day until bleeding is achieved</td>
</tr>
<tr>
<td>Major</td>
<td>80-100 (pre- and post-operative)</td>
<td>8-24</td>
<td>Until adequate wound healing, then continue therapy for at least 7 days to maintain a factor VIII activity of 35% to 50% (IU/dL)</td>
</tr>
</tbody>
</table>

Routine Prophylaxis

A guide for dosing Novoeight® for routine prophylaxis is included below in Table 3.

<table>
<thead>
<tr>
<th>Patient Population</th>
<th>Factor VIII Dose Required (IU/kg)</th>
<th>Frequency of Doses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adults and adolescents (&lt;12 years)</td>
<td>20-50</td>
<td>3 times weekly</td>
</tr>
<tr>
<td>Children (&lt;12 years)</td>
<td>25-60</td>
<td>3 times weekly</td>
</tr>
<tr>
<td>Adults and adolescents (&gt;12 years)</td>
<td>20-40</td>
<td>Every other day</td>
</tr>
<tr>
<td>Children (&gt;12 years)</td>
<td>25-50</td>
<td>Every other day</td>
</tr>
</tbody>
</table>
Novoeight®: Antiinhibitor Factor (Recombinant) is a recombinant (r) analogue of human coagulation factor VIII (FVIII) with a molecular mass of 166 kDa, calculated excluding post-translational modifications.

The recombinant molecule in Novoeight® is a glycoprotein containing a heavy chain and a light chain, with 21 of the 908 amino acids of the B-domain of endogenous FVIII connected to the C-terminus of the heavy chain. Once activated, the resulting rFVIIa has a comparable structure to the endogenous FVIIa.

Novoeight® is synthesized by a genetically engineered Chinese hamster ovary (CHO) cell line which secretes rFVIIa into the cell culture medium. The rFVIII protein is purified using a series of chromatography steps, one of which is the use of an immunoaffinity column in which a monoclonal antibody, produced in CHO cells and directed against FVIII, is employed to selectively isolate the rFVIII from the medium. The production process includes two dedicated viral clearance steps—a detergent treatment step for inactivation and a 20-nm filtration step for removal of viruses. No additives of human or animal origin are used in the cell culture, purification and formulation of Novoeight®.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Novoeight® temporally replaces the missing clotting factor VIII that is needed for effective hemostasis.

12.2 Pharmacodynamics

The activated partial thromboplastin time (aPTT) is prolonged in patients with hemophilia A. Determination of aPTT is a conventional in vitro assay for the biological activity of FVIII. Treatment with Novoeight® normalizes the aPTT over the effective dosing period.

12.3 Pharmacokinetics

All pharmacokinetic studies with Novoeight® were conducted in previously treated patients with severe hemophilia A (factor VIII ≤ 1%). Analysis of plasma samples was conducted using both the one-stage clotting assay and the chromogenic assay.

In a multi-center, multi-national, open-label, single dose pharmacokinetic study, 23 patients with severe hemophilia A received 50 IU/kg of Novoeight® intravenously. Two patients were below the age of 18 years (13 and 17 years). The pharmacokinetic parameters for 20 patients who completed the study are summarized in Table 4.

Table 4: Pharmacokinetics of Novoeight® in 20 adult and adolescent patients with hemophilia A

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Clotting Assay</th>
<th>Chromogenic Assay</th>
<th>Mean (SD)</th>
<th>Mean (SD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incremental Recovery (IU/mL/IU/kg)</td>
<td>0.020 (0.002)</td>
<td>0.028 (0.006)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AUC (IU*h/mL)</td>
<td>14.2 (3.8)</td>
<td>16.7 (5.1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CL (mL/h/kg)</td>
<td>3.74 (0.95)</td>
<td>2.97 (1.80)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>t1/2 (h)</td>
<td>10.8 (4.9)</td>
<td>12.0 (5.3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vss (mL/kg)</td>
<td>53.4 (10.9)</td>
<td>44.1 (28.2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cmax (IU/mL)</td>
<td>1.07 (0.16)</td>
<td>1.54 (0.29)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRT (h)</td>
<td>15.4 (6.4)</td>
<td>16.4 (10.1)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In a separate pharmacokinetic study, 28 pediatric patients with severe hemophilia A (14 patients were ≤6 years of age and 14 patients were between 6 to <12 years of age) received a single dose of 50 international units/kg Novoeight®. The pharmacokinetic parameters of Novoeight® are summarized in Table 5 for both age groups.

Table 5: Pharmacokinetics of Novoeight® in 28 pediatric patients with hemophilia A

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Clotting Assay</th>
<th>Chromogenic Assay</th>
<th>Mean (SD)</th>
<th>Mean (SD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incremental Recovery (IU/mL/IU/kg)</td>
<td>0.016 (0.007)</td>
<td>0.022 (0.006)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AUC (IU*h/mL)</td>
<td>9.9 (4.1)</td>
<td>12.2 (4.4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CL (mL/h/kg)</td>
<td>6.26 (3.75)</td>
<td>4.60 (1.75)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>t1/2 (h)</td>
<td>7.7 (1.8)</td>
<td>9.0 (1.9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vss (mL/kg)</td>
<td>57.5 (26.8)</td>
<td>55.5 (23.7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cmax (IU/mL)</td>
<td>1.00 (0.56)</td>
<td>1.12 (0.31)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRT (h)</td>
<td>9.7 (2.5)</td>
<td>12.1 (11.5)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
surgery (five synovectomies, two total hip arthroplasties, one knee replacement, arthroscopy, and circumcision), and one was minor (tooth extraction). The investigator’s ratings of intra- and post-operative quality of hemostasis for these subjects were “excellent” or “good” for all cases.

16 HOW SUPPLIED/Storage and Handling

How Supplied
- NovoEight® is supplied in packages comprised of a single-use vial containing nominally 250, 500, 1000, 1500, 2000, or 3000 International units (IU) of FVIII potency, a MixPro® pre-filled diluted syringe containing 0.9% sodium chloride solution, and sterile vial adapter with 25 micron filter, which serves as a needless reconstitution device.
- The actual amount of FVIII potency in IU is stated on each carton and vial.

Presentation (Nominal Product Strength)  
Carton NDC Number  
Components  
250 International Units  NDC 0169 7825 01  
• NovoEight® in single-use vial  
[NDC 0169-7829-11]  
• Pre-filled sodium chloride diluted in syringe, 4 mL  
[NDC 0169-7098-96]  
• Vial adapter  
500 International Units  NDC 0169 7850 01  
• NovoEight® in single-use vial  
[NDC 0169-7851-11]  
• Pre-filled sodium chloride diluted in syringe, 4 mL  
[NDC 0169-7098-96]  
• Vial adapter  
1000 International Units  NDC 0169 7815 01  
• NovoEight® in single-use vial  
[NDC 0169-7811-11]  
• Pre-filled sodium chloride diluted in syringe, 4 mL  
[NDC 0169-7098-96]  
• Vial adapter  
1500 International Units  NDC 0169 7855 01  
• NovoEight® in single-use vial  
[NDC 0169-7851-11]  
• Pre-filled sodium chloride diluted in syringe, 4 mL  
[NDC 0169-7098-96]  
• Vial adapter  
2000 International Units  NDC 0169 7811 01  
• NovoEight® in single-use vial  
[NDC 0169-7811-11]  
• Pre-filled sodium chloride diluted in syringe, 4 mL  
[NDC 0169-7098-96]  
• Vial adapter  
3000 International Units  NDC 0169 7831 01  
• NovoEight® in single-use vial  
[NDC 0169-7831-11]  
• Pre-filled sodium chloride diluted in syringe, 4 mL  
[NDC 0169-7098-96]  
• Vial adapter

Storage and Handling
- Store NovoEight® in the original package in order to protect from light.
- Store NovoEight® under refrigeration at a temperature of 36°F to 46°F (2°C to 8°C) for up to 30 months from the date of manufacture until the expiration date stated on the carton. During the 30 month shelf life, NovoEight® may be kept at room temperature:
  - up to 86°F (30°C) for no longer than 12 months
  - up to 104°F (40°C) for no longer than 3 months
- Clearly record the date when the product was removed from the refrigerator in the space provided on the outer carton. Do not return the product to the refrigerator. Do not freeze NovoEight®.
- Use NovoEight® within 4 hours after reconstitution when stored at <86°F (30°C) or within 2 hours when stored between 86°F (30°C) to 104°F (40°C). Store the reconstituted product in the vial.
- Discard any unused reconstituted product.

17 Patient Counseling Information
- Advise patients to read the FDA-approved patient labeling (Patient Information and Instructions for Use).
- Allergic-type hypersensitivity reactions or anaphylaxis are possible with use of NovoEight®. Inform patients of the early signs of hypersensitivity reactions including rash, itching, facial swelling, tightness of the chest and wheezing. Advise patients to discontinue use of NovoEight® immediately and contact their physician, and go to the emergency department if these symptoms occur.
- Advise patients to contact their physician or treatment facility for further treatment and/or assessment if they experience a lack of a clinical response to factor VIII replacement therapy, as this may be a manifestation of an inhibitor.
- Advise patients to consult with their healthcare provider prior to traveling. While traveling, patients should be advised to bring an adequate supply of NovoEight® based on their current treatment regimen.
- Advise patients to follow the recommendations regarding proper sharps disposal provided in the FDA-approved Instructions for Use.

Table 6: Annualized Bleeding Rate in All Patients

<table>
<thead>
<tr>
<th>NDC Number</th>
<th>NDC Number</th>
<th>NDC Number</th>
<th>NDC Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>0169 7825 01</td>
<td>0169 7850 01</td>
<td>0169 7815 01</td>
<td>0169 7855 01</td>
</tr>
<tr>
<td>0169 7811 01</td>
<td>0169 7851 01</td>
<td>0169 7831 01</td>
<td>0169 7811 01</td>
</tr>
</tbody>
</table>

A total of 68 subjects were treated with NovoEight® for at least 12 months, including seven subjects <12 years. The ABR was similar for the subjects treated for 12 months when compared to the ABR for the total trial population.

Perioperative Management
A total of 11 surgeries were performed in 11 previously treated subjects between 14 and 55 years of age, of which 10 were major surgeries (five synovectomies, two total hip arthroplasties, one knee replacement, arthroscopy, and circumcision), and one was minor (tooth extraction). The investigator’s ratings of intra- and post-operative quality of hemostasis for these subjects were “excellent” or “good” for all cases.
Patient Product Information
Novoeight® (Nō-vo-eyt)
Antihemophilic Factor (Recombinant)

Read the Patient Product Information and the Instructions For Use that come with Novoeight® before you start taking this medicine and each time you get a refill. There may be new information.

This Patient Product Information does not take the place of talking with your healthcare provider about your medical condition or treatment. If you have questions about Novoeight® after reading this information, ask your healthcare provider.

What is the most important information I need to know about Novoeight®?
Do not attempt to do an infusion yourself unless you have been taught how by your healthcare provider or hemophilia center.

You must carefully follow your healthcare provider's instructions regarding the dose and schedule for infusing Novoeight® so that your treatment will work best for you.

What is Novoeight®?
Novoeight® is an injectable medicine used to replace clotting factor VIII that is missing in patients with hemophilia A. Hemophilia A is an inherited bleeding disorder that prevents blood from clotting normally.

Novoeight® is used to control and prevent bleeding in people with hemophilia A.

Your healthcare provider may give you Novoeight® when you have surgery.

Novoeight® is not used to treat von Willebrand Disease.

Who should not use Novoeight®?
You should not use Novoeight® if you
• are allergic to factor VIII or any of the other ingredients of Novoeight®
• if you are allergic to hamster proteins

Tell your healthcare provider if you are pregnant or nursing because Novoeight® might not be right for you.

What should I tell my healthcare provider before I use Novoeight®?
You should tell your healthcare provider if you
• Have or have had any medical conditions.
• Take any medicines, including non-prescription medicines and dietary supplements.
• Are nursing.
• Are pregnant or planning to become pregnant.
• Have been told that you have inhibitors to factor VIII.

How should I use Novoeight®?
Treatment with Novoeight® should be started by a healthcare provider who is experienced in the care of patients with hemophilia A.

Novoeight® is given as an injection into the vein.

You may infuse Novoeight® at a hemophilia treatment center, at your healthcare provider’s office or in your home. You should be trained on how to do infusions by your hemophilia treatment center or healthcare provider. Many people with hemophilia A learn to infuse the medicine by themselves or with the help of a family member.

Your healthcare provider will tell you how much Novoeight® to use based on your weight, the severity of your hemophilia A, and where you are bleeding.

You may need to have blood tests done after getting Novoeight® to be sure that your blood level of factor VIII is high enough to clot your blood. This is particularly important if you are having major surgery.

Your healthcare provider will calculate your dose of Novoeight® (in international units, IU) depending on your condition and body weight.

Call your healthcare provider right away if your bleeding does not stop after taking Novoeight®.

Development of factor VIII inhibitors
Your body can also make antibodies called “inhibitors” against Novoeight®, which may stop Novoeight® from working properly.

If your bleeding is not adequately controlled, it could be due to the development of factor VIII inhibitors. This should be checked by your healthcare provider. You might need a higher dose of Novoeight® or even a different product to control bleeding.

Do not increase the total dose of Novoeight® to control your bleeding without consulting your healthcare provider.

Use in children
Novoeight® can be used in children. Your healthcare provider will decide the dose of Novoeight® you will receive.

If you forget to use Novoeight®
Do not inject a double dose to make up for a forgotten dose. Proceed with the next injections as scheduled and continue as advised by your healthcare provider.

If you stop using Novoeight®
If you stop using Novoeight® you are not protected against bleeding. Do not stop using Novoeight® without consulting your healthcare provider.

If you have any further questions on the use of this product, ask your healthcare provider.

What if I take too much Novoeight®?
Always take Novoeight® exactly as your healthcare provider has told you. You should check with your healthcare provider if you are not sure. If you inject more Novoeight® than recommended, tell your healthcare provider as soon as possible.

What are the possible side effects of Novoeight®?
Common Side Effects Include:
• swelling or itching at the location of injection
• changes in liver tests
• fever

Other Possible Side Effects:
You could have an allergic reaction to coagulation factor VIII products. Call your healthcare provider right away and stop treatment if you get any of the following signs of an allergic reaction:
• rashes including hives
• difficulty breathing, shortness of breath or wheezing
• tightness of the chest or throat, difficulty swallowing
• swelling of the lips and tongue
• light-headedness, dizziness or loss of consciousness
• pale and cold skin, fast heart beat which may be signs of low blood pressure
• red or swollen face or hands

These are not all of the possible side effects from Novoeight®. Ask your healthcare provider for more information. You are encouraged to report side effects to FDA at 1-800-FDA-1088.

Tell your healthcare provider about any side effect that bothers you or that does not go away.

What are the Novoeight® dosage strengths?
Novoeight® comes in six different dosage strengths. The actual number of international units (IU) of factor VIII in the vial will be printed on the label and on the box. The six different strengths are as follows:

- Dosage strength of approximately 250 IU per vial
- Dosage strength of approximately 500 IU per vial
- Dosage strength of approximately 1000 IU per vial
- Dosage strength of approximately 1500 IU per vial
- Dosage strength of approximately 2000 IU per vial
- Dosage strength of approximately 3000 IU per vial

Always check the actual dosage strength printed on the label to make sure you are using the strength prescribed by your doctor.

How should I store Novoeight®?
Prior to Reconstitution:
Store in original package in order to protect from light. Do not freeze Novoeight®.

Novoeight® vials can be stored in the refrigerator (36°F to 46°F [2°C to 8°C]) for up to 30 months or up to the expiration date. During the 30 month shelf life, the product may be kept at room temperature up to 86°F (30°C) for no longer than 12 months, or up to 104°F (40°C) for no longer than 3 months.

If you choose to store Novoeight® at room temperature:
• Note the date that the product is removed from refrigeration on the box.
• Do not return the product to the refrigerator.
• Do not use after 12 months if stored up to 86°F (30°C) or after 3 months if stored up to 104°F (40°C) or the expiration date listed on the vial, whichever is earlier.

Do not use this medication after the expiration date which is on the outer carton and the vial. The expiration date refers to the last day of that month.

After Reconstitution (mixing the dry powder in the vial with the diluent):

The reconstituted Novoeight® should appear clear to slightly unclear without particles. The reconstituted Novoeight® should be used immediately.

If you cannot use the Novoeight® immediately after it is mixed, it must be used within 4 hours when stored at ≤ 86°F (30°C) or within 2 hours when stored between 86°F (30°C) to 104°F (40°C). Store the reconstituted product in the vial.

Keep this medicine out of the sight and out of reach of children.

What else should I know about Novoeight® and hemophilia A?
Medicines are sometimes prescribed for purposes other than those listed here. Do not use Novoeight® for a condition for which it is not prescribed. Do not share Novoeight® with other people, even if they have the same symptoms that you have.

For more information about Novoeight®, please call Novo Nordisk at 1-844-30-EIGHT.

Revised: 05/2018
Novo Nordisk® is a registered trademark of Novo Nordisk Health Care AG.


For information about Novoeight® contact: Novo Nordisk Inc.
800 Scudders Mill Road
Plainboro, NJ 08536, USA

Manufactured by: Novo Nordisk A/S
DK-2880 Bagsvaerd, Denmark
© 2018 Novo Nordisk
US18NEG70038 6/2018
**Instructions on how to use Novoeight® MixPro®**

READ THESE INSTRUCTIONS CAREFULLY BEFORE USING NOVOEIGHT®.

Novoeight® is supplied as a powder. Before injection (administration) it must be mixed (reconstituted) with the liquid diluent supplied in the syringe. The liquid diluent is a sodium chloride solution. The mixed Novoeight® must be injected into your vein (intravenous injection). The equipment in this package is designed to mix and inject Novoeight®. You will also need an infusion set (tubing and butterfly needle), sterile alcohol swabs, gauze pads, and bandages.

**Don’t 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 medication 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.

Don’t open the equipment until you are ready to use it. Don’t use the equipment if it has been dropped, or if it is damaged. Use a new package instead.

Don’t use the equipment if it is expired. Use a new package instead. The expiration date is printed on the outer carton and on the vial, the vial adapter and the pre-filled syringe.

Don’t use the equipment if you suspect it is contaminated. Use a new package instead.

Don’t dispose of any of the items until after you have injected the mixed solution. The equipment is for single use only.

**Content**

The package contains:

- Vial with Novoeight® powder
- Vial adapter
- Pre-filled syringe with diluent
- Plunger rod (placed under the syringe)

**Overview**

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<th>Vial with NovoEight® powder</th>
<th>Vial adapter</th>
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<table>
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<td>Scale</td>
<td>Wide top end</td>
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**1. Prepare the vial and the syringe**

- Take out the number of Novoeight® packages you need.
- Check the expiry date.
- Check the name and the color of the package, to make sure it contains the correct product.
- Wash your hands and dry them properly using a clean towel or air dryer.
- 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.

- Remove the plastic cap from the vial. If the plastic cap is loose or missing, don’t 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.
- Don’t touch the rubber stopper with your fingers as this can transfer germs.

**2. Attach the vial adapter**

- Place the vial on a flat and solid surface.
- Turn over the protective cap, and snap the vial adapter onto the vial. Once attached, don’t remove the vial adapter from the vial.

- Lighly squeeze the protective cap with your thumb and index finger as shown. Remove the protective cap from the vial adapter.
- Don’t 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. Don’t 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 rubber 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.
- Don’t 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, don’t use the pre-filled syringe.

- Screw the pre-filled syringe securely onto the vial adapter until resistance is felt.

**4. Mix the powder with the diluent**

- Hold the pre-filled syringe slightly tilted with the vial pointing downwards.
- Push the plunger rod to inject all the diluent into the vial.

- Keep the plunger rod pressed down and swirl the vial gently until all the powder is dissolved.
- Don’t shake the vial as this will cause foaming.
- Check the mixed solution. It must be clear to slightly opalescent (slightly unclear). If you notice visible particles or discoloration, don’t use it. Use a new package instead.

Novoeight® is recommended to be used immediately after it is mixed. This is because if left, the medicine may no longer be sterile and could cause infections.

If you cannot use the mixed Novoeight® solution immediately, it must be used within 4 hours when stored at ≤ 86°F (30°C) or within 2 hours when stored between 86°F (30°C) to 104°F (40°C). Store the reconstituted product in the vial.

Do not freeze mixed Novoeight® solution or store it in syringes.

Keep mixed Novoeight® solution out of direct light.

If your dose requires more than one vial, repeat step 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 mixed solution fills the syringe.
• Pull the plunger rod slightly downwards to draw the mixed solution into the syringe.
• In case you only need part of the entire vial, use the scale on the syringe to see how much mixed solution you withdraw, as instructed by your doctor or nurse.
• 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.

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 in an appropriate container for throwing away medical waste.
Don’t throw it out with the ordinary household trash.

Don’t disassemble the vial and vial adapter before disposal.
Don’t reuse the equipment.

Important information
Contact your healthcare provider or local hemophilia treatment center if you experience any problems.
For full Prescribing Information please read the other insert included in this package.

Caution: The pre-filled diluent syringe is made of glass with an internal tip diameter of 0.037 inches, and is compatible with a standard Luer-lock connector.
Some needleless connectors for intravenous catheters are incompatible with the glass diluent syringes (for example, certain connectors with an internal spike, such as Clave®/MicroClave®, InVision-Plus®, InVision-Plus CS®, Invision-Plus Junior®, Bionector®).

The use of these needleless connectors can damage the connector and affect administration.

To administer Novoeight® through incompatible needleless connectors, withdraw reconstituted product into a standard 10 mL sterile Luer-lock plastic syringe.
If you have encountered any problems with attaching the pre-filled sodium chloride diluent syringe to any Luer-lock compatible device, please contact Novo Nordisk at (844) 303-4448.

5. Inject the mixed solution
Novoeight® is now ready to inject into your vein.
• Do not mix Novoeight® with any other intravenous infusions or medications.
• Inject the mixed solution slowly over 2 to 5 minutes as instructed by your doctor or nurse.

Injecting the solution via a central venous access device (CVAD) such as a central venous catheter or subcutaneous port:
• Use a clean and germ free (aseptic) technique. Follow the instructions for proper use for your connector and central venous access device in consultation with your doctor or nurse.
• Injecting into a CVAD may require using a sterile 10 mL plastic syringe for withdrawal of the mixed solution and injection.
• If necessary, use 0.9% Sodium Chloride Injection, USP to flush the CVAD line before or after Novoeight® injection.

The peel-off label found on the Novoeight® vial can be used to record the lot number.