





NovoSeven® RT: Success speaks for itself



Proven effective for bleed resolution and surgery across 4 indications²

• CHAwI, CHBwI, AH, GT, and CFVIId



A well-established safety profile

- Low rate of thrombotic events based on clinical trials and registry data²
- 0.2% in CHwI bleeds, 4% in AH patients, <0.2% in GT bleeds



Not made from human serum or human proteins²



Able to quickly treat bleeds when they occur

• Rapid administration and infusion, leading to rapid activity^{2,3}



With NovoSeven® RT, the experience continues

• >30 years of clinical experience^{3,a}

CHwI=congenital hemophilia with inhibitors; CHAwI=congenital hemophilia A with inhibitors; CHBwI=congenital hemophilia B with inhibitors; AH=acquired hemophilia; CFVIId=congenital factor VII deficiency; GT=Glanzmann's thrombasthenia.

^a 1988: compassionate use initiated in the United States; 1999: FDA approval received for CHwI.^{2,5}

Indications and Usage

NovoSeven® RT (coagulation Factor VIIa, recombinant) is a coagulation factor indicated for:

- Treatment of bleeding episodes and perioperative management in adults and children with hemophilia A or B with inhibitors, congenital Factor VII (FVII) deficiency, and Glanzmann's thrombasthenia with refractoriness to platelet transfusions, with or without antibodies to platelets
- Treatment of bleeding episodes and perioperative management in adults with acquired hemophilia

Important Safety Information

WARNING: THROMBOSIS

- Serious arterial and venous thrombotic events following administration of NovoSeven® RT have been reported
- Discuss the risks and explain the signs and symptoms of thrombotic and thromboembolic events to patients who will receive NovoSeven® RT
- Monitor patients for signs or symptoms of activation of the coagulation system and for thrombosis



NovoSeven® RT helps a broad range of patients^b with bleeding disorders²





Indications	NovoSeven®RT ^{2,c}	FEIBA® 6,d	Obizur ^{®7,e}	SevenFACT®8,f,g
Congenital hemophilia A with inhibitors	6 8	6		6
Congenital hemophilia B with inhibitors	♦ ♦	6		6
Acquired hemophilia	♦		.	
Congenital factor VII deficiency	♦ ♦			
Glanzmann's thrombasthenia with refractoriness to platelet transfusions, with or without antibodies to platelets	6 8			

^bIndicated for bleed control and surgery in 4 bleeding disorders.²



Please see additional Important Safety Information throughout. Please click here for Prescribing Information, including Boxed Warning.

^cNovoSeven[®]RT is a recombinant FVIIa.

dFEIBA is an activated prothrombin complex concentrate (aPCC).

^eObizur is a porcine sequence recombinant FVIII.

fSevenFACT is a recombinant FVIIa.

⁹SevenFACT is only indicated for adults and adolescents (12 years and older).



NovoSeven® RT is there for your patients when bleeds happen

A well-established safety profile, with >30 years of clinical experience⁴

Clinical trials²



MASAC recommends rFVIIa to treat acute bleeds in patients with congenital hemophilia A with inhibitors taking emicizumab prophylaxis⁹

During the HAVEN studies, in patients receiving emicizumab prophylaxis:

- 47% of bleeds were treated with a single injection of NovoSeven® RT in HAVEN1^{10,a}
- No serious AEs and no cases of TMA or TE were associated with the use of NovoSeven® RT alone in HAVEN1, 2, and 4¹⁰
- Two cases of TMA occurred in patients receiving FEIBA and NovoSeven® RT. Simultaneous use of NovoSeven® RT and FEIBA should be avoided¹¹



MASAC=Medical and Scientific Advisory Council; rFVIIa=recombinant activated factor VII; TE=thrombotic event; TMA=thrombotic microangiopathy.

^aThe analysis included bleeding episodes in the HAVEN1, HAVEN2, and HAVEN4 clinical trials for which patients with CHAwI on emicizumab prophylaxis (at the labeled dose) used rFVIIa. Initial individual dosing with rFVIIa, dosing intervals, and cumulative dosing were evaluated. All adverse events reported in each of the 3 trials, including available narratives, were assessed. The cut-off dates for data presented were for HAVEN 1 (primary analysis) September 2017; HAVEN 2 (interim analysis) October 2017; and HAVEN 4 (primary analysis) December 2017.¹⁰

NovoSeven® RT contains only rFVIIa²

NovoSeven® RT is not made with any other coagulation factors, such as FIX or FIXa^{2,6}

NovoSeven® RT ²	FEIBA ^{®6}
Activated recombinant factor VII (rFVIIa)	Factors II, IX, and X mainly in nonactivated form as well as activated factor VII
	Factor VIII coagulant antigen (FVIII C:Ag) is present at a concentration of up to 1-6 units per mL of FEIBA
	Factors of the kallikrein-kinin system are present only in trace amounts

FEIBA contains activated and nonactivated coagulation factors, including FII, FVIII, FIX, and FX, which can accumulate with repeat dosing^{6,12}

MASAC recommends patients with congenital hemophilia B with a history of inhibitors and anaphylaxis not be given FIX-containing products for acute bleeds.¹³

Important Safety InformationWarnings and Precautions

 Hypersensitivity reactions, including anaphylaxis, can occur with NovoSeven® RT. Patients with a known hypersensitivity to mouse, hamster, or bovine proteins may be at a higher risk of hypersensitivity reactions. Discontinue infusion and administer appropriate treatment when hypersensitivity reactions occur





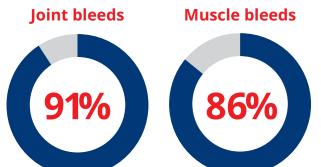
Effective bleed control in congenital hemophilia A or B with inhibitors

Proven trial results and real-world experience

93% efficacy seen in adeptTM2^{14,a}

all bleed locations at 12 hours

- One of the largest clinical trials conducted in patients with CHwI
- Comparable efficacy seen in joint, target, mucocutaneous, muscle, and other bleeding episodes
- 98% effective bleed control in patients ≤18 years, based on real-world experience¹⁶



Efficacy seen in Lusher et al^{15,b}

^aData from an international, multicenter, randomized, double-blind, active-controlled, confirmatory phase 3 trial of patients with hemophilia A or B with inhibitors (n=69). Primarily carried out in the home setting, all bleeds were treated, and each bleeding episode was randomized (3:2) to infuse either 1 to 3 doses of vatreptacog alfa (340 bleeding episodes; 80 mcg/kg) or 1 to 3 doses of NovoSeven® RT (227 bleeding episodes; 90 mcg/kg) when bleed symptoms were recognized, preferably within 2 hours of onset. Primary efficacy endpoint indicated effective bleed control defined as no additional hemostatic reaction (other than the original medication) given within 12 hours after the initial dose.¹⁴

^bData from a randomized, double-blind, parallel-group, multicenter study of patients with hemophilia A and B with and without an inhibitor (n=84). Patients were given NovoSeven® 35 or 70 mcg/kg at dosing intervals of 2 to 3 hours. Efficacy reflects the number of patients reporting excellent, effective, or partially effective results. Response was rated as "excellent" if patient demonstrated definitive relief of pain/tenderness and/ or if there was a measurable decrease in the size of the bleed (or arrest of bleeding) in 8 hours or less. An "effective" response was measured by any of these 3 events occurring from 8 to 14 hours; a "partially effective" response either occurred after 14 hours or indicated detectable relief of pain/ tenderness or decrease in size of the hemorrhage or if the bleeding had slowed.¹⁵



Important Safety Information

Warnings and Precautions (cont'd)

 Serious arterial and venous thrombotic events have been reported in clinical trials and postmarketing surveillance

NovoSeven® RT controls joint bleeds fast

Hemostasis was achieved with a median of 2 doses¹⁵







Quick readministration

NovoSeven® RT can be readministered as quickly as every 2 hours compared with up to 12 hours for FEIBA^{2,6}

Median 2 doses

A median of 2 doses helped control joint bleeds in as little as 5 hours^{15,a}

Maximum activity

NovoSeven® RT achieved maximum activity within 5-10 minutes of infusion^{3,c,d}

^cData from a randomized, double-blind trial of healthy subjects (N=22) who received 1 intravenous bolus injection each of NovoSeven® RT and NovoSeven®. Both bolus injections were 90 mcg/kg and occurred 2 to 3 weeks apart at consecutive visits. While the comparison is not shown for FVIIa, activity for NovoSeven® RT was the bioequivalent range of that for NovoSeven® during this period. ¹⁵
^dFVIIa activity IU/mL.³

Important Safety Information Warnings and Precautions (cont'd)

 Patients with congenital hemophilia receiving concomitant treatment with aPCCs (activated prothrombin complex concentrates), older patients particularly with acquired hemophilia and receiving other hemostatic agents, and patients with a history of cardiac and vascular disease may have an increased risk of developing thrombotic events

Please see additional Important Safety Information throughout.
Please <u>click here</u> for Prescribing Information, including Boxed Warning.





Keep NovoSeven® RT on hand to treat as early as possible

Take control of acute bleeding episodes^{a,b}

- 90 mcg/kg every 2 hours until hemostasis is achieved²
- For each patient, both the recommended dose of 90 mcg/kg and dosing interval can be adjusted based on the severity of bleeding^{2,c}

NovoSeven® RT has **no maximum daily dose**restrictions when used within the approved regimen²

^aThe appropriate duration of post-hemostatic dosing has not been studied.

Important Safety Information Warnings and Precautions (cont'd)

• Factor VII deficient patients should be monitored for prothrombin time (PT) and factor VII coagulant activity (FVII:C). If FVII:C fails to reach the expected level, or PT is not corrected, or bleeding is not controlled after treatment with the recommended doses, antibody formation may be suspected and analysis for antibodies should be performed



The **speed to control** bleeds when they happen

Rapid infusion with less volume

• NovoSeven® RT has 16x less infusion volume than FEIBA^{2,6,c,d}





• NovoSeven® RT is up to 18x faster to infuse than FEIBA^{2,6,e}





^dIndividual doses for a joint bleed are compared and based on an 88-kg (194 lb) person.

Please see additional Important Safety Information throughout. Please <u>click here</u> for Prescribing Information, including Boxed Warning.







^bThe minimum effective dose has not been determined.

^cIn patients with hemophilia A or B with inhibitors.

ePatients are cautioned that the maximum injection or infusion rate must not exceed 2 U/kg of body weight.

Early diagnosis and treatment are crucial in acquired hemophilia

Isolated, unexplained prolonged, aPTT in a patient with acute or recent-onset bleeding: a vital clue to acquired hemophilia^{17,18}



Consult

When lab results show an unexplained, isolated, prolonged aPTT, consult a hematologist immediately 17,18



Confirm

Delays in diagnosis and treatment put patients with acquired hemophilia at risk. 19,20 In fact, AH is associated with death in 1 out of every 3 patients²¹



Control the bleed with NovoSeven® RT

> Model used for illustrative purposes only.

Important Safety Information

Warnings and Precautions (cont'd)

• Laboratory coagulation parameters (PT/INR, aPTT, FVII:C) have shown no direct correlation to achieving hemostasis

Adverse Reactions

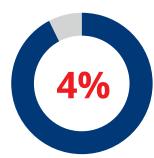
 The most common and serious adverse reactions in clinical trials are thrombotic events. Thrombotic adverse reactions following the administration of NovoSeven® RT in clinical trials occurred in 4% of patients with acquired hemophilia and 0.2% of bleeding episodes in patients with congenital hemophilia



NovoSeven® RT: The first and only bypassing agent FDA approved for AH

Recombinant safety supported by clinical trials

Clinical trials²



Occurrence of thrombotic events

- Works at the site of vascular injury^{2,22}
- Not made from human serum or human proteins²

Rapid access to treatment

- NovoSeven® RT can be infused in 2-5 minutes²
- Low-volume, flexible dosing for patients with AH²
- 70-90 mcg/kg every 2-3 hours until hemostasis is achieved
- Room temperature stable up to 77°F²

Using NovoSeven® RT first line improves its efficacy²³









 An international consensus recommends the use of NovoSeven® RT as first-line treatment for acquired hemophilia¹⁷











Recognizing and properly treating Glanzmann's thrombasthenia

Diagnosing GT isn't always simple²⁴⁻²⁸

- Normal PT, aPTT, and platelet count do not indicate the absence of a bleeding disorder
- If a patient has mucocutaneous bleeds, consider screening for platelet defects
- Automated platelet function tests (eg, PFA-100) screen for platelet dysfunction
- Definitive diagnosis of GT requires more specific platelet function tests

Treating with platelets has potential complications

Patients who receive platelet transfusions are at risk of developing refractoriness to future transfusions and/or platelet antibodies. ²⁷⁻³¹

Refractoriness to platelet transfusions with antibodies to platelets

Refractoriness
to platelet
transfusions
without
antibodies to
platelets

Treat with NovoSeven® RT^{28,29}

DALLAS has Glanzmann's thrombasthenia with refractoriness to platelet transfusions



Important Safety Information Drug Interactions

• Thrombosis may occur if NovoSeven® RT is administered concomitantly with Coagulation Factor XIII

NovoSeven® RT: The only recombinant bypassing agent for GT with refractoriness to platelets

Proven effective in GT-related bleeds and surgery

All bleeding episodes^{2,a} All surgical procedures^{2,b}





Recombinant safety supported by registry data Thrombotic events in bleeding episodes²



 Not made from human serum or human proteins²

Rapid access to treatment

- NovoSeven® RT can be infused in 2-5 minutes²
- Low-volume, flexible dosing for patients with GT²
- 90 mcg/kg every 2-6 hours in severe bleeding episodes requiring systemic hemostatic therapy until hemostasis is achieved
- Room temperature stable up to 77°F²

⁹Adjudicator-assessed effectiveness of treatment regimens in patients with GT (N=218) in all severe bleeding episodes and all surgical procedures (N=1073) based on review of Glanzmann's Thrombasthenia Registry (GTR) data unblinded to investigator-coded efficacy. Efficacy was evaluated on a 2-point scale (clinical assessment of success or failure of treatment regimen as a whole, blinded and unblinded to investigator-coded outcome) including 92 patients treated with NovoSeven® RT for 266 bleeding episodes and 77 patients treated for 160 surgical procedures.

^bData collected from the GTR and the Hemophilia & Thrombosis Research Society registry showed that 140 patients with GT received NovoSeven® RT for 518 bleeding episodes, surgeries, or traumatic injuries. In the GTR, 1 patient reported a serious adverse reaction (deep vein thrombosis) and 1 patient experienced 3 adverse reactions (nausea, headache, and dyspnea). In addition, 2 patients experienced fever and 1 patient experienced headache.

NovoSeven®RTCoagulation Factor VIIa
(Recombinant)







With congenital factor VII deficiency, early treatment is essential

Life-threatening bleeds present early in life^{32,33}

- CNS and GI bleeds occur most frequently during the first 6 months of life
- 70% of patients under the age of 5 years started having joint bleeds

rFVIIa is recommended by MASAC to treat CFVIId³⁴

Indications and Usage

NovoSeven® RT (coagulation Factor VIIa, recombinant) is a coagulation factor indicated for:

- Treatment of bleeding episodes and perioperative management in adults and children with hemophilia A or B with inhibitors, congenital Factor VII (FVII) deficiency, and Glanzmann's thrombasthenia with refractoriness to platelet transfusions, with or without antibodies to platelets
- Treatment of bleeding episodes and perioperative management in adults with acquired hemophilia

Important Safety Information

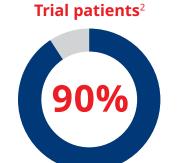
WARNING: THROMBOSIS

novo nordisk

- Serious arterial and venous thrombotic events following administration of NovoSeven® RT have been reported
- Discuss the risks and explain the signs and symptoms of thrombotic and thromboembolic events to patients who will receive NovoSeven® RT
- · Monitor patients for signs or symptoms of activation of the coagulation system and for thrombosis

NovoSeven® RT: **The only factor product approved** for CFVIId

Effectively control bleeds





Rapid access to treatment

- NovoSeven® RT can be infused in 2-5 minutes²
- Low-volume, flexible dosing for patients with CFVIId² - 15-30 mcg/kg every 4-6 hours until hemostasis is achieved
- Room temperature stable up to 77°F²

 NovoSeven® RT is 93% effective at stopping nonsurgical and surgical bleeds in people with CFVIIda

^aData from the published literature and internal sources for patients with FVII deficiency (N=70) treated with NovoSeven® for 124 bleeding episodes, surgeries, or prophylaxis regimens. Dosing ranged from 6 mcg/kg administered every 2 to 12 hours (except for prophylaxis [doses administered from 2 times per week up to 2 times per day]). Patients were treated with an average of 1 to 10 doses. Treatment was effective if bleeding stopped or the physician rated the treatment as effective.²

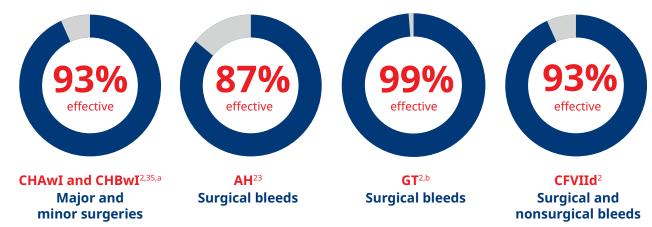


Success speaks for itself



NovoSeven® RT: Proven to effectively control bleeds in surgery across all 4 indications

Proven efficacy during surgery



A proven safety profile for perioperative bleed management

- Low rate of thrombotic events in surgery based on clinical trials and registry data^{2,c}
- · Serious arterial and venous thrombotic events following administration of NovoSeven® RT have been reported

c 0.2% in patients with CHwI, 4% in patients with AH, < 0.2% in patients with GT.2



Important Safety Information Warnings and Precautions

• Serious arterial and venous thrombotic events have been reported in clinical trials and postmarketing surveillance

NovoSeven® RT: Essential to control bleeds in surgery

Flexible dosing before, during, and after surgery

- NovoSeven® RT can be used in both minor and major surgeries across 4 indications²
- MASAC guidelines recommend administering rFVIIa to CHAwI patients taking emicizumab who will undergo major procedures to maintain adequate hemostasis at the discretion of the treating physician⁹
- NovoSeven® RT offers tailored perioperative dosing²

NovoSeven® RT is the only bypassing agent approved for continuous infusion in CHwI²

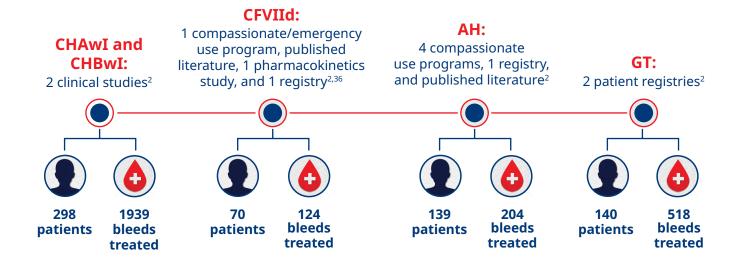
CHAwI and CHBwI	Minor: 90 mcg/kg immediately before surgery, repeat every 2 hours during surgery. Followed by 90 mcg/kg every 2 hours after surgery for 48 hours, then every 2-6 hours until healing occurs. Major: 90 mcg/kg immediately before surgery, repeat every 2 hours during surgery. Followed by 90 mcg/kg every 2 hours after surgery for 5 days, then every 4 hours or by continuous infusion at 50 mcg/kg/hr until healing occurs.
АН	70-90 mcg/kg immediately before surgery and every 2-3 hours for the duration of the surgery and until hemostasis is achieved.
GT	90 mcg/kg immediately before surgery and every 2 hours for the duration of the procedure, followed by 90 mcg/kg every 2-6 hours to prevent postoperative bleeding. Higher doses of 100-140 mcg/kg can be used for surgical patients who have clinical refractoriness with or without platelet-specific antibodies.
CVIId	15-30 mcg/kg immediately before surgery and every 4-6 hours for the duration of the surgery and until hemostasis is achieved. Adjust dose and frequency of injections to each individual patient. Doses as low as 10 mcg/kg of body weight can be effective.

- Can be re-dosed as quickly as every 2 hours during and after surgery²
- Can be infused in 2-5 minutes²

^aIn patients with hemophilia A or B with inhibitors. Actual length of postoperative period may vary. Data from a prospective, randomized trial comparing 35 mcg/kg with 90 mcg/kg rFVIIa, each given every 2 hours intraoperatively and in the first 48 hours, then every 2-6 hours throughout day 5. Beyond day 5, patients were treated with open-label 90 mcg/kg until discharge at the discretion of the investigator. A total of 29 patients underwent 11 major and 18 minor procedures.³⁵

^bData collected from the GTR and the Hemophilia & Thrombosis Research Society registry showed that 140 patients with GT received NovoSeven® RT for 518 bleeding episodes, surgeries, or traumatic injuries. In the GTR, 1 patient reported a serious adverse reaction (deep vein thrombosis) and 1 patient experienced 3 adverse reactions (nausea, headache, and dyspnea). In addition, 2 patients experienced fever and 1 patient experienced headache.²

NovoSeven® RT experience continues to grow



years of research and long-term clinical experience⁴
 patients and 2,785 episodes treated in registrational studies^{2,36,a}
 successful surgeries and procedures^{35,37-56,b}

Important Safety Information Warnings and Precautions (cont'd)

 Patients with congenital hemophilia receiving concomitant treatment with aPCCs (activated prothrombin complex concentrates), older patients particularly with acquired hemophilia and receiving other hemostatic agents, and patients with a history of cardiac and vascular disease may have an increased risk of developing thrombotic events



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NovoSeven®RTCoagulation Factor VIIa
(Recombinant)



Please see additional Important Safety Information throughout.
Please <u>click here</u> for Prescribing Information, including Boxed Warning.

^aIncludes bleeding episodes, major and minor surgical procedures, traumatic injuries, and prophylaxis regimens. ^bSuccess was defined differently in each study.

NovoSeven® RT: Success speaks for itself



Proven effective for bleed resolution and surgery across 4 indications²

• CHAwI, CHBwI, AH, GT, and CFVIId



A well-established safety profile

- Low rate of thrombotic events based on clinical trials and registry data²
 0.2% in CHwI bleeds, 4% in AH patients, <0.2% in GT bleeds
- (III)

Not made from human serum or human proteins²



Able to quickly treat bleeds when they occur

• Rapid administration and infusion, leading to rapid activity^{2,3}



With NovoSeven® RT, the experience continues

•>30 years of clinical experience^{4,a}

^a1988: compassionate use initiated in the United States; 1999: FDA approval received for CHwI.^{2,5}

Important Safety Information Warnings and Prosputions (conf(d))

Warnings and Precautions (cont'd)

Hypersensitivity reactions, including anaphylaxis, can occur with NovoSeven®
RT. Patients with a known hypersensitivity to mouse, hamster, or bovine proteins
may be at a higher risk of hypersensitivity reactions. Discontinue infusion and
administer appropriate treatment when hypersensitivity reactions occur

Please see additional Important Safety Information throughout.
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Model used for illustrative purposes only.





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