

## HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use XYNTHA® safely and effectively. See full prescribing information for XYNTHA® [Antihemophilic Factor (Recombinant), Plasma/Albumin-Free] For Intravenous Use Freeze-Dried Powder

Initial U.S. Approval: 2008

### INDICATIONS AND USAGE

XYNTHA is an antihemophilic factor indicated for:

- Control and prevention of bleeding episodes in patients with hemophilia A (1.1)
- Surgical prophylaxis in patients with hemophilia A (1.2)

### DOSAGE AND ADMINISTRATION

#### For intravenous use after reconstitution only (2)

- The required dosage is determined using the following formula:

Required units = body weight (kg) x desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)

- Frequency of intravenous injection of the reconstituted product is determined by the type of bleeding episode and the recommendation of the treating physician. (2.1, 2.2)

### DOSAGE FORMS AND STRENGTHS

XYNTHA powder is available as 250, 500, 1000, or 2000 IU in single-use vials. (3)

### CONTRAINDICATIONS

Do not use in patients who have manifested life-threatening immediate hypersensitivity reactions, including anaphylaxis, to the product or its components, including hamster proteins.

## WARNINGS AND PRECAUTIONS

- Anaphylaxis and severe hypersensitivity reactions are possible. Should such reactions occur, treatment with the product should be discontinued, and appropriate treatment should be administered. (5.2)
- Development of activity-neutralizing antibodies has been detected in patients receiving factor VIII-containing products. If expected plasma factor VIII activity levels are not attained, or if bleeding is not controlled with an appropriate dose, an assay that measures factor VIII inhibitor concentration should be performed. (5.3, 5.5)
- Patients may develop hypersensitivity to hamster protein, which is present in trace amounts in the product. (5.4)

## ADVERSE REACTIONS

The most common adverse reaction in Study 1 is headache and in Study 2 is pyrexia (41% of subjects). (6)

Two out of 89 subjects (who completed ≥ 50 exposure days) developed an inhibitor during the course of the study. The observation of 2 inhibitors in 89 subjects who completed ≥ 50 exposure days was consistent with a 95% probability that the inhibitor formation rate with XYNTHA is less than 4.17% using a Bayesian analysis. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Wyeth Pharmaceuticals Inc. at 1-800-438-1985 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch)

## USE IN SPECIFIC POPULATIONS

Pregnancy: No human or animal data. Use only if clearly needed. (8.1)

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

Revised: 06/2011

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

#### **1.1 Control and Prevention of Bleeding Episodes in Hemophilia A**

XYNTHA Antihemophilic Factor (Recombinant), Plasma/Albumin-Free is indicated for the control and prevention of bleeding episodes in patients with hemophilia A (congenital factor VIII deficiency or classic hemophilia).

XYNTHA does not contain von Willebrand factor, and therefore is not indicated in patients with von Willebrand's disease.

#### **1.2 Surgical Prophylaxis in Patients with Hemophilia A**

XYNTHA Antihemophilic Factor (Recombinant), Plasma/Albumin-Free is indicated for surgical prophylaxis in patients with hemophilia A.

### **2 DOSAGE AND ADMINISTRATION**

#### **For Intravenous Use After Reconstitution**

- Treatment with XYNTHA Antihemophilic Factor (Recombinant), Plasma/Albumin-Free should be initiated under the supervision of a physician experienced in the treatment of hemophilia A.
- Dosage and duration of treatment depend on the severity of the factor VIII deficiency, the location and extent of bleeding, and the patient's clinical condition. Doses administered should be titrated to the patient's clinical response. Careful control of replacement therapy is especially important in cases of major surgery or life-threatening bleeding episodes.
- One International Unit (IU) of factor VIII activity corresponds approximately to the quantity of factor VIII in one milliliter of normal human plasma. The calculation of the required dosage of factor VIII is based upon the empirical finding that, on average, 1 IU of factor VIII per kg body weight raises the plasma factor VIII activity by approximately 2 IU/dL.<sup>2</sup> The required dosage is determined using the following formula:

The expected in vivo peak increase in factor VIII level expressed as IU/dL (or % normal) can be estimated using the following formulas:

**Dosage (units) = body weight (kg) x desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)**

**OR**

**IU/dL (or % normal) = Total Dose (IU)/body weight (kg) x 2 [IU/dL]/[IU/kg]**

The labeled potency of XYNTHA is based on the European Pharmacopoeia chromogenic substrate assay, in which the Wyeth manufacturing standard has been calibrated using a one-stage clotting assay. This method of potency assignment is intended to harmonize XYNTHA with clinical monitoring using a one-stage clotting assay [see *Clinical Pharmacology (12.3)*].

## 2.1 Control and Prevention of Bleeding Episodes

In the case of the following bleeding events, consideration should be given to maintaining the factor VIII activity at or above the plasma levels (in % of normal or in IU/dL) outlined below for the indicated period.

The following chart can be used to guide dosing in bleeding episodes:

<b>Type of Bleeding Episode</b>	<b>Factor VIII Level Required (IU/dL or % of normal)</b>	<b>Frequency of Doses / Duration of Therapy</b>
<b>Minor</b>		
Early hemarthrosis, minor muscle or oral bleeds.	20-40	Repeat every 12-24 hours as necessary until resolved. At least 1 day, depending upon the severity of the bleeding episode.
<b>Moderate</b>		
Bleeding into muscles. Mild head trauma. Bleeding into the oral cavity.	30-60	Repeat infusion every 12-24 hours for 3-4 days or until adequate local hemostasis is achieved.
<b>Major</b>		
Gastrointestinal bleeding. Intracranial, intra-abdominal, or intrathoracic bleeding. Fractures.	60-100	Repeat infusion every 8-24 hours until bleeding is resolved.

## 2.2 Surgical Prophylaxis in Patients with Hemophilia A

In the case of the following bleeding events, consideration should be given to maintaining the factor VIII activity at or above the plasma levels (in % of normal or in IU/dL) outlined below for the indicated period. Monitoring of replacement therapy by means of plasma factor VIII activity is recommended, particularly for surgical intervention.

The following chart can be used to guide dosing in surgery:

<b>Type of Surgery</b>	<b>Factor VIII Level Required (IU/dL or % of normal)</b>	<b>Frequency of Doses / Duration of Therapy</b>
<b>Minor</b>		
Minor operations, including tooth extraction.	30-60	Repeat infusion every 12-24 hours for 3-4 days or until adequate local hemostasis is achieved. For tooth extraction, a single infusion plus oral antifibrinolytic therapy within 1 hour may be sufficient.
<b>Major</b>		
Major operations.	60-100	Repeat infusion every 8-24 hours until threat is resolved, or in the case of surgery, until adequate local hemostasis and wound healing are achieved.

### 2.3 Instructions for Use

XYNTHA is administered by intravenous (IV) infusion after reconstitution of the freeze-dried powder with the supplied prefilled diluent (0.9% Sodium Chloride solution) syringe.

Patients should follow the specific reconstitution and administration procedures provided by their physician. For instructions, patients should follow the recommendations in the *Patient Counseling Information (17)*. The procedures below are provided as general guidelines for the reconstitution and administration of XYNTHA.

Additional instructions are provided after *Administration (2.5)* that detail the use of a XYNTHA vial and Prefilled Dual-Chamber Syringe [see *Use of a XYNTHA Vial Kit and a XYNTHA Prefilled Dual-Chamber Syringe Kit (2.6)*].

**Note:** If the patient uses more than one vial and/or prefilled dual-chamber syringe of XYNTHA per infusion, each vial and/or syringe should be reconstituted according to the instructions for that respective product kit. A separate 10 cc or larger luer lock syringe (not included in this kit) may be used to draw back the reconstituted contents of each vial or syringe.

### 2.4 Preparation and Reconstitution

#### Preparation

1. Always wash your hands before performing the following procedures.
2. Aseptic technique (meaning clean and germ-free) should be used during the reconstitution procedure.

3. All components used in the reconstitution and administration of this product should be used as soon as possible after opening their sterile containers to minimize unnecessary exposure to the atmosphere.

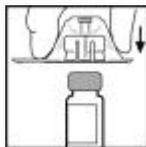
**Note:** If you use more than one vial of XYNTHA per infusion, each vial should be reconstituted according to the following instructions. The diluent syringe should be removed, leaving the vial adapter in place, and a separate large luer lock syringe may be used to draw back the reconstituted contents of each vial. Do not detach the diluent syringe or the large luer lock syringe until you are ready to attach the large luer lock syringe to the next vial adapter.

## Reconstitution

1. Allow the vials of freeze-dried XYNTHA and the prefilled diluent syringe to reach room temperature.
2. Remove the plastic flip-top cap from the XYNTHA vial to expose the central portions of the rubber stopper.



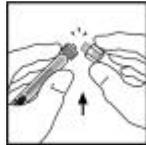
3. Wipe the top of the vial with the alcohol swab provided, or use another antiseptic solution, and allow to dry. After cleaning, do not touch the rubber stopper with your hand or allow it to touch any surface.
4. Peel back the cover from the clear plastic vial adapter package. **Do not remove the adapter from the package.**
5. Place the vial on a flat surface. While holding the adapter package, place the vial adapter over the vial and press down firmly on the package until the adapter spike penetrates the vial stopper.



6. Grasp the plunger rod as shown in the diagram. Avoid contact with the shaft of the plunger rod. Attach the threaded end of the plunger rod to the diluent syringe plunger by pushing and turning firmly.



7. Break off the tamper-resistant plastic tip cap from the diluent syringe by snapping the perforation of the cap. Do not touch the inside of the cap or the syringe tip. The diluent syringe may need to be recapped (if not administering reconstituted XYNTHA immediately), so place the cap on its top on a clean surface in a spot where it would be least likely to become environmentally contaminated.



8. Lift the package away from the adapter and discard the package.



9. Place the vial on a flat surface. Connect the diluent syringe to the vial adapter by inserting the tip into the adapter opening while firmly pushing and turning the syringe clockwise until secured.



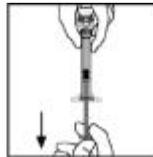
10. Slowly depress the plunger rod to inject all the diluent into the XYNTHA vial.



11. Without removing the syringe, **gently** swirl the contents of the vial until the powder is dissolved.

**Note: The final solution should be inspected visually for particulate matter before administration. The solution should be clear to slightly opalescent and colorless. If it is not, the solution should be discarded and a new kit should be used.**

12. Invert the vial and slowly draw the solution into the syringe.



13. Detach the syringe from the vial adapter by gently pulling and turning the syringe counterclockwise. Discard the vial with the adapter attached.

**Note:** If the solution is not to be used immediately, the syringe cap should be carefully replaced. Do not touch the syringe tip or the inside of the cap.

The reconstituted solution may be stored at room temperature prior to administration, but should be administered within 3 hours.

**XYNTHA, when reconstituted, contains polysorbate 80, which is known to increase the rate of di-(2-ethylhexyl)phthalate (DEHP) extraction from polyvinyl chloride (PVC). This should be considered during the preparation and administration of XYNTHA, including storage time elapsed in a PVC container following reconstitution. It is important that the recommendations in *Dosage and Administration (2)* be followed closely.**

## 2.5 Administration

XYNTHA is administered by intravenous (IV) infusion after reconstitution of the freeze-dried powder with the diluent (0.9% Sodium Chloride) syringe. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

XYNTHA should be administered using the tubing provided in this kit and the prefilled diluent syringe provided, or a single sterile disposable plastic syringe. In addition, the solution should be withdrawn from the vial using the vial adapter.

1. Attach the syringe to the luer end of the infusion set tubing provided.
2. Apply a tourniquet and prepare the injection site by wiping the skin well with an alcohol swab provided in the kit.



3. Remove the protective needle cover and perform venipuncture. Insert the needle on the infusion set tubing into the vein, and remove the tourniquet. The reconstituted XYNTHA product should be injected intravenously over several minutes. The rate of administration should be determined by the patient's comfort level. As with any intravenous administration, always verify proper needle placement.



**Reconstituted XYNTHA should not be administered in the same tubing or container with other medicinal products.<sup>3</sup>**

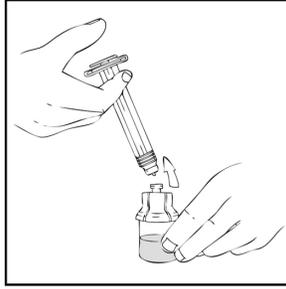
After infusing XYNTHA, remove the infusion set and discard. The amount of drug product left in the infusion set will not affect treatment.

**Note:** Dispose of all unused solution, the empty vial(s), and other used medical supplies in an appropriate container for throwing away medical waste that might hurt others if not handled properly.

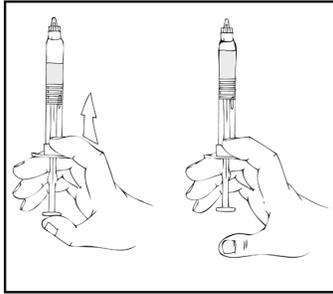
## **2.6 Use of a XYNTHA Vial Kit and a XYNTHA SOLOFUSE™ Kit**

These instructions are for the use of only one XYNTHA Vial Kit and one XYNTHA SOLOFUSE™ Kit. For further information, please contact the Medical Information Department at Wyeth Pharmaceuticals, 1-800-438-1985.

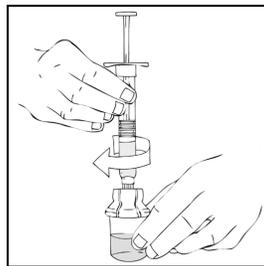
1. Reconstitute the XYNTHA vial using the instructions included with this kit. Detach the empty diluent syringe from the vial adapter by gently turning and pulling the syringe counterclockwise, leaving the contents in the vial and the vial adapter in place.



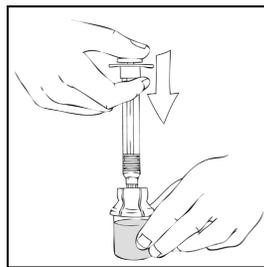
2. Reconstitute the XYNTHA SOLOFUSE™ using the instructions included with the kit, remembering to remove most, but not all, of the air from the drug product chamber.



3. After removing the protective blue vented cap, connect the XYNTHA SOLOFUSE™ to the vial adapter by inserting the tip into the adapter opening while firmly pushing and turning the syringe clockwise until secured.

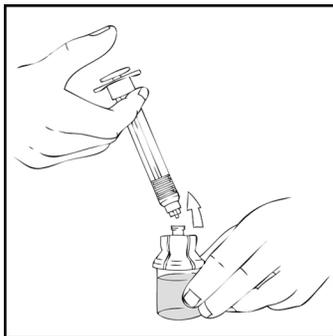


4. Slowly depress the plunger rod of the XYNTHA SOLOFUSE™ until the contents empty into the XYNTHA vial. The plunger rod may move back slightly after release.

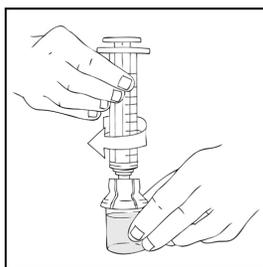


5. Detach and discard the empty XYNTHA SOLOFUSE™ from the vial adapter.

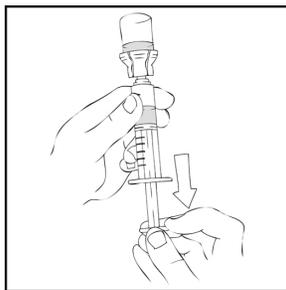
**Note:** If the syringe turns without detaching from the vial adapter, grasp the white collar and turn.



6. Connect a sterile 10 cc or larger luer lock syringe to the vial adapter. You may want to inject some air into the vial to make withdrawing the vial contents easier.



7. Invert the vial and slowly draw the solution into the 10 cc or larger luer lock syringe.



8. Detach the syringe from the vial adapter by gently turning and pulling the syringe counterclockwise. Discard the vial with the adapter attached.
9. Attach the infusion set to the 10 cc or larger luer lock syringe as directed [*see Dosage and Administration (2.5)*].

**Note:** Dispose of all unused solution, the empty XYNTHA SOLOFUSE™, and other used medical supplies in an appropriate container for throwing away medical waste that might hurt others if not handled properly.

### 3 DOSAGE FORMS AND STRENGTHS

XYNTHA is supplied as a white to off-white powder in the following dosages:

- 250 IU
- 500 IU
- 1000 IU
- 2000 IU

#### **4 CONTRAINDICATIONS**

Do not use in patients who have manifested life-threatening immediate hypersensitivity reactions, including anaphylaxis, to the product or its components, including hamster proteins.

#### **5 WARNINGS AND PRECAUTIONS**

##### **5.1 General**

The clinical response to XYNTHA may vary. If bleeding is not controlled with the recommended dose, the plasma level of factor VIII should be determined and a sufficient dose of Xyntha should be administered to achieve a satisfactory clinical response. If the patient's plasma factor VIII level fails to increase as expected or if bleeding is not controlled after the expected dose, the presence of an inhibitor (neutralizing antibodies) should be suspected and appropriate testing performed. [*see Warnings and Precautions (5.3)*]

##### **5.2 Anaphylaxis and Severe Hypersensitivity Reactions**

Allergic type hypersensitivity reactions are possible. Patients should be informed of the early signs or symptoms of hypersensitivity reactions (including hives [rash with itching], generalized urticaria, tightness of the chest, wheezing, and hypotension) and anaphylaxis [*see Patient Counseling Information (17)*].

Patients should be advised to discontinue use of the product and contact their physician if these symptoms occur.

##### **5.3 Neutralizing Antibodies**

Patients using coagulation factor VIII products, including XYNTHA, should be monitored for the development of factor VIII inhibitors by appropriate clinical observations and laboratory tests. Inhibitors have been reported following administration of XYNTHA. If expected factor VIII activity plasma levels are not attained, or if bleeding is not controlled with an appropriate dose, an assay should be performed to determine if a factor VIII inhibitor is present [*see Warnings and Precautions (5.5)*].<sup>4,5,6,7,8,9,10,11,12</sup>

##### **5.4 Formation of Antibodies to Hamster Protein**

XYNTHA contains trace amounts of hamster proteins. Patients treated with this product could develop hypersensitivity to these non-human mammalian proteins.

## 5.5 Monitoring: Laboratory Tests

- Monitor plasma factor VIII activity levels by the one-stage clotting assay to confirm that adequate factor VIII levels have been achieved and are maintained, when clinically indicated [*see Dosage and Administration (2)*].
- It is recommended that individual factor VIII values for recovery and, if clinically indicated, other pharmacokinetic characteristics be used to guide dosing and administration.
- Monitor for development of factor VIII inhibitors. Perform assay to determine if factor VIII inhibitor is present when expected factor VIII activity plasma levels are not attained, or when bleeding is not controlled with the expected dose of XYNTHA. Use Bethesda Units (BU) to titer inhibitors.

## 6 ADVERSE REACTIONS

The most common adverse reaction in study 1 is headache (24% of subjects) and in study 2 is pyrexia (41% of subjects).

### 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

Study 1 is a pivotal phase 3 (safety and efficacy) study in which previously treated patients (PTPs) with hemophilia A received XYNTHA for routine prophylaxis and on-demand treatment, 94 subjects received at least one dose of XYNTHA, resulting in a total of 6,775 infusions [*see Clinical Studies (14)*]. In Study 1, the most frequently reported treatment-emergent adverse reaction was headache (24% of subjects). Other adverse reactions reported in  $\geq 5\%$  of subjects were: nausea (6%), diarrhea (5%), asthenia (5%), and pyrexia (5%). No subject developed anti-CHO (Chinese hamster ovary) or anti-TN8.2 antibodies.

Study 2 (surgery) is an ongoing, open-label, single-arm study of at least 25 evaluable PTPs with severe or moderately severe hemophilia A (factor VIII activity in plasma [FVIII:C]  $\leq 2\%$ ) who required elective major surgery and were planned to receive XYNTHA replacement therapy for at least 6 days post-surgery. Twenty-two subjects received at least one dose of XYNTHA, resulting in 766 infusions [*see Clinical Studies (14)*].

In Study 2, the most frequently reported treatment-emergent adverse reaction was pyrexia (41% of subjects). Other adverse reactions reported in  $\geq 5\%$  of subjects were: headache (9%), nausea (9%), diarrhea (5%), vomiting (5%), and asthenia (5%). The adverse reactions reported in either study were considered mild or moderate in severity.

## Immunogenicity

In Study 1, the incidence of FVIII inhibitors to XYNTHA was the primary safety endpoint. Two subjects with inhibitors were observed in 89 subjects (2.2%) who completed  $\geq 50$  exposure days. These results were consistent with the pre-specified endpoint that no more than 2 inhibitors may be observed in at least 81 subjects.

In a Bayesian statistical analysis, results from this study were used to update PTP results from a prior supporting study using XYNTHA manufactured at the initial facility, where one *de novo* and two recurrent inhibitors were observed in 110 subjects, and the experience with predecessor product (1 inhibitor in 113 subjects). This Bayesian analysis indicates that the population (true) inhibitor rate for XYNTHA, the estimate of the 95% upper limit of the true inhibitor rate, was 4.17% (see Table 1).

Table 1: Bayesian Posterior Distribution of Inhibitor Rate							
-----Posterior Beta Distribution Characteristics-----							
FVIII Inhibitor Nijmegen Result (BU/mL)	Number of Inhibitors	Number of Subjects Analyzed	Observed Inhibitor Rate (%)	Alpha <sup>a</sup>	Beta <sup>b</sup>	Posterior Probability <sup>c</sup>	95% Upper Limit of Inhibitor Rate (%) <sup>d</sup>
$\geq 0.6$	2	89	2.25	4.5	197	0.9613	4.17

<sup>a</sup> Prior alpha of 2.5 plus the number of observed inhibitors.

<sup>b</sup> Prior beta of 110 plus the number of subjects analyzed minus the number of observed inhibitors.

<sup>c</sup> Posterior probability is the probability that the true inhibitor rate is less than the upper acceptable limit of 4.4%. A posterior probability greater than 0.95 is deemed acceptable.

<sup>d</sup> The 95% upper limit of the true inhibitor rate (the maximum rate calculated with at least 95% probability) based on the posterior distribution. An inhibitor rate less than 4.4% is deemed acceptable.

## 6.2 Postmarketing Experience

The following postmarketing adverse reactions have been reported for XYNTHA: hypersensitivity reactions, including anaphylaxis [see *Warnings and Precautions (5.2)*], inhibitor development [see *Warnings and Precautions (5.3)*], and inadequate therapeutic response [see *Clinical Pharmacology (12)*].

Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

## 7 DRUG INTERACTIONS

None known.

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### *Pregnancy Category C*

Animal reproduction studies have not been conducted with XYNTHA Antihemophilic Factor (Recombinant), Plasma/Albumin-Free. It is also not known whether XYNTHA can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. XYNTHA should be given to a pregnant woman only if clinically indicated.

### 8.2 Labor and Delivery

There is no information available on the effect of factor VIII replacement therapy on labor and delivery. XYNTHA should be used only if clinically indicated.

### 8.3 Nursing Mothers

It is not known whether this drug is excreted into human milk. Because many drugs are excreted into human milk, caution should be exercised if XYNTHA is administered to nursing mothers. XYNTHA should be given to nursing mothers only if clinically indicated.

### 8.4 Pediatric Use

A study of XYNTHA in previously treated patients less than 6 years of age is currently ongoing.

Pharmacokinetics of XYNTHA was studied in 7 previously treated patients 12-16 years of age. Pharmacokinetic parameters in these patients were similar to those obtained for adults after a dose of 50 IU/kg. For these 7 patients, the mean ( $\pm$  SD)  $C_{\max}$  and  $AUC_{\infty}$  were  $1.09 \pm 0.21$  IU/mL and  $11.5 \pm 5.2$  IU·h/mL, respectively. The mean clearance and plasma half-life values were  $5.23 \pm 2.36$  mL/h/kg and  $8.03 \pm 2.44$  hours (range 3.52-10.6 hours), respectively. The mean K-value and *in vivo* recoveries were  $2.18 \pm 0.41$  IU/dL per IU/kg and  $112 \pm 23\%$ , respectively.

### 8.5 Geriatric Use

Clinical studies of XYNTHA did not include subjects aged 65 and over. In general, dose selection for an elderly patient should be individualized.

## 11 DESCRIPTION

Antihemophilic Factor (Recombinant), Plasma/Albumin-Free, the active ingredient in XYNTHA, is a recombinant coagulation factor VIII produced by recombinant DNA technology for use in therapy of factor VIII deficiency. The Antihemophilic Factor (Recombinant), Plasma/Albumin-Free in XYNTHA is a purified glycoprotein, with an approximate molecular mass of 170 kDa consisting of 1,438 amino acids, which does not contain the B-domain.<sup>13</sup> The amino acid sequence of Antihemophilic Factor (Recombinant),

Plasma/Albumin-Free in XYNTHA is comparable to the 90 + 80 kDa form of human factor VIII.

The Antihemophilic Factor (Recombinant), Plasma/Albumin-Free in XYNTHA is secreted by a genetically engineered CHO cell line. The cell line is grown in a chemically defined cell culture medium that contains recombinant insulin, but does not contain any materials derived from human or animal sources. The Antihemophilic Factor (Recombinant), Plasma/Albumin-Free in XYNTHA is purified by a process that uses a series of chromatography steps, one of which is based on affinity chromatography using a patented synthetic peptide affinity ligand.<sup>14</sup> The process also includes a solvent-detergent viral inactivation step and a virus-retaining nanofiltration step.

The potency expressed in International Units (IU) is determined using the chromogenic assay of the European Pharmacopoeia. The Wyeth manufacturing reference standard for potency has been calibrated against the World Health Organization (WHO) International Standard for factor VIII activity using the one-stage clotting assay. The specific activity of XYNTHA is 5,500 to 9,900 IU per milligram of protein.

XYNTHA is formulated as a sterile, nonpyrogenic, preservative-free, freeze-dried powder preparation for intravenous (IV) injection. Each single-use vial contains nominally 250, 500, 1000, or 2000 IU of XYNTHA. Upon reconstitution, the product is a clear to slightly opalescent, colorless solution that contains sodium chloride, sucrose, L-histidine, calcium chloride, and polysorbate 80.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

**XYNTHA temporarily 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. Determination of aPTT is a conventional *in vitro* assay for biological activity of factor VIII. Treatment with XYNTHA normalizes the aPTT over the effective dosing period.

### 12.3 Pharmacokinetics

In a pivotal crossover clinical study, 30 evaluable previously treated patients [PTP] ( $\geq 12$  years) received a single infusion of 50 IU/kg of XYNTHA followed by a full-length recombinant FVIII (FLrFVIII, Advate<sup>®</sup>) or a single infusion of FLrFVIII followed by XYNTHA in a randomized crossover design. The one-stage clotting assay method was used to determine the concentrations of these two products in blood. XYNTHA was shown to be pharmacokinetically equivalent to FLrFVIII as the 90% confidence intervals for XYNTHA-to-FLrFVIII ratios of the mean values of  $C_{max}$  and  $AUC_{\infty}$  were within pre-established limits of 80% to 125%. The pharmacokinetic parameters of XYNTHA in the above group of patients are summarized in Table 2.

In addition, 25 PTPs received a single infusion of 50 IU/kg of XYNTHA for a 6-month follow-up PK study. The pharmacokinetic parameters were comparable between baseline and month 6, indicating no time-dependent changes in the pharmacokinetic properties of XYNTHA; the 90% confidence intervals for XYNTHA 6 month-to-baseline ratios of the mean values of  $C_{max}$  and  $AUC_{\infty}$  were within pre-established limits of 80% to 125%.

**Table 2: Pharmacokinetic Parameter Estimates for XYNTHA at Baseline (Cross-over phase) and Month 6 (Follow-up phase) in Previously Treated Patients with Hemophilia A**

Parameter	Parameters at Initial Visit	Parameters at Month 6
	(Crossover phase, n = 30) Mean ± SD	(Follow-up phase, n = 25) Mean ± SD
$C_{max}$ (IU/mL)	1.08 ± 0.22	1.24 ± 0.42
$AUC_{\infty}$ (IU•hr/mL)	13.5 ± 5.6	15.0 ± 7.5
$t_{1/2}$ (hr)	11.2 ± 5.0	11.8 ± 6.2*
CL (mL/hr/kg)	4.51 ± 2.23	4.04 ± 1.87
K-value (IU/dL per IU/kg)	2.15 ± 0.44	2.47 ± 0.84
<i>In vivo</i> Recovery (%)	103 ± 21	116 ± 40

Abbreviations:  $AUC_{\infty}$  = area under the plasma concentration-time curve from zero to infinity;  $C_{max}$  = peak concentration; K-value = incremental recovery;  $t_{1/2}$  = plasma elimination half-life; CL = clearance; n = number of subjects; SD = standard deviation.

\*One subject was excluded from the calculation due to lack of a well-defined terminal phase.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No studies have been conducted with XYNTHA to assess its mutagenic or carcinogenic potential. XYNTHA has been shown to be comparable to the predecessor product with respect to its biochemical and physicochemical properties, as well as its nonclinical *in vivo* pharmacology and toxicology. By inference, predecessor product and XYNTHA would be expected to have equivalent mutagenic and carcinogenic potential. The predecessor product has been shown to be nongenotoxic in the mouse micronucleus assay. No studies have been conducted in animals to assess impairment of fertility or fetal development.

### 13.2 Animal Toxicology and/or Pharmacology

Preclinical studies evaluating XYNTHA in hemophilia A dogs without inhibitors demonstrated safe and effective restoration of hemostasis. XYNTHA demonstrated a toxicological profile that was similar to the toxicological profile observed with the predecessor product. Toxicity associated with XYNTHA was primarily associated with anti-FVIII neutralizing antibody generation first detectable at 15 days of repeat dosing in high (approximately 735 IU/kg/day) level-dosed, non-human primates.

## 14 CLINICAL STUDIES

The efficacy of XYNTHA was evaluated in Study 1, in which subjects received XYNTHA on a prophylaxis treatment regimen, with on-demand treatment administered as clinically indicated. Ninety-four (94) subjects were enrolled and treated with at least one dose, and all are included in the intent-to-treat (ITT) population. Eighty-nine (89) subjects accrued  $\geq 50$  exposure days. From the 94 subjects enrolled, thirty (30) evaluable subjects participated in the PK study and received at least 1 PK dose. Twenty-five (25) evaluable subjects with FVIII:C  $\leq 1\%$  completed both the first (PK1) and the second (PK2) assessments [see *Clinical Pharmacology (12.3)*]. Median age for the 94 treated subjects was 24 years (mean 27.7 and range 12-60 years). All subjects had  $\geq 150$  previous exposure days with baseline FVIII activity level of  $\leq 2\%$ .

In the open-label safety and efficacy period, all 94 subjects received XYNTHA for routine prophylaxis at the dose of  $30 \pm 5$  IU/kg 3 times a week with provisions for dose escalation based on pre-specified criteria. Seven (7) dose escalations were prescribed for 6 subjects during the course of the study. Forty-three (43) of ninety-four (94), i.e. 45.7%, subjects reported no bleeding while on routine prophylaxis. The median annualized bleeding rate (ABR) for all bleeding episodes was 1.9 (mean 3.9, range 0-42.1).

Fifty-three (53) of 94 subjects received XYNTHA for on-demand treatment for a total of 187 bleeding episodes (see Table 3). Seven of these bleeding episodes occurred in subjects prior to switching to a prophylaxis treatment regimen. One hundred ten of one hundred eighty (110/180) bleeds (61.1%) occurred  $\leq 48$  hours after the last dose and 38.9% (70 of 180 bleeds) occurred  $> 48$  hours after the last dose. The majority of bleeds reported to occur  $\leq 48$  hours after the last prophylaxis dose were traumatic (64 of 110 bleeds; 58.2%). Forty-two (42) of 70 bleeds (60%) reported to occur  $> 48$  hours after the last prophylaxis dose were spontaneous. The on-demand treatment dosing regimen was determined by the investigator. The median dose for on-demand treatment was 30.6 IU/kg (range 6.4-74.4 IU/kg).

$\leq 24$ hrs		$> 24 \leq 48$ hrs		$> 48 \leq 72$ hrs		$> 72$ hrs		Unknown <sup>a</sup>		Total Bleeding Episodes
Spon	Traum	Spon	Traum	Spon	Traum	Spon	Traum	Spon	Traum	
13	20	33	44	24	12	18	16	3	4	187

<sup>a</sup> Bleeds with unknown start time or bleeds in which previous prophylaxis dose was before the start of the safety and efficacy period of the study. Abbreviations: Spon = spontaneous new bleed; Traum = new bleed due to trauma; hrs = hours.

The majority of bleeding episodes (173/187; 92.5%) resolved with 1 or 2 infusions. Subjects rated the outcomes of infusions on a pre-specified four (4) point hemostatic efficacy scale. One hundred thirty-two (132) of 187 bleeding episodes (70.6%) treated with XYNTHA were rated excellent or good in their response to initial treatment, 45 (24.1%) were rated moderate. Five (5) [2.7%] were rated no response, and 5 (2.7%) were not rated.

**Table 4: Summary of Response to Infusions to Treat New Bleeding Episode by Number of Infusions Needed for Resolution**

Response to 1 <sup>st</sup> Infusion	-----Number of Infusions (%)-----					Total Number of Bleeds
	1	2	3	4	> 4	
Excellent	42 (95.5)	2 (4.5)	0 (0.0)	0 (0.0)	0 (0.0)	44
Good	69 (78.4)	16 (18.2)	3 (3.4)	0 (0.0)	0 (0.0)	88
Moderate	24 (53.3)	16 (35.6)	2 (4.4)	0 (0.0)	3 (6.7)	45
No Response	0 (0.0)	0 (0.0)	2 (40.0)	2 (40.0)	1 (20.0)	5
Not Assessed	4 (80.0)	0 (0.0)	0 (0.0)	1 (20.0)	0 (0.0)	5 <sup>a</sup>
Total	139 (74.3)	34 (18.2)	7 (3.7)	3 (1.6)	4 (2.1)	187

<sup>a</sup> Includes 1 infusion with commercial FVIII that occurred before routine prophylaxis began.

In an ongoing, open-label study of XYNTHA in surgical prophylaxis, 21 of at least 25 evaluable PTPs with severe or moderately severe (FVIII:C  $\leq$  2%) hemophilia A undergoing major surgical procedures received XYNTHA. One (1) subject received XYNTHA for a pre-surgery pharmacokinetic assessment only and had not undergone surgery.

The results of an interim analysis on 21 of the 25 planned evaluable subjects who had undergone major surgical procedures (13 total knee replacements, 1 hip replacement, 3 synovectomies, 1 left ulnar nerve transposition release, 1 ventral hernia repair/scar revision, 1 knee arthroscopy, 1 revision and debridement of the knee after a total knee replacement) are presented in Table 5. For the 21 surgical subjects, investigator's ratings of efficacy at the end of surgery and at the end of the initial postoperative period were excellent or good for all assessments. All reported blood loss during the intra-operative and postoperative periods was rated normal with the exception of one subject who experienced iatrogenic bleeding.

Time of Hemostatic Efficacy Assessment	Excellent	Good	Number of subjects
End of surgery	14 (67%)	7 (33%)	21
End of initial postoperative period <sup>a</sup>	16 (84%)	3 (16%)	19

<sup>a</sup> Conclusion of initial postoperative period is date of discharge or postoperative Day 6, whichever occurs later.

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## **16 HOW SUPPLIED/STORAGE AND HANDLING**

### **16.1 How Supplied**

XYNTHA<sup>®</sup> Antihemophilic Factor (Recombinant), Plasma/Albumin-Free is supplied in kits that include single-use vials that contain nominally 250, 500, 1000, or 2000 IU powder per vial:

250 IU Kit: NDC 58394-012-01

500 IU Kit: NDC 58394-013-01

1000 IU Kit: NDC 58394-014-01

2000 IU Kit: NDC 58394-015-01

In addition, each XYNTHA Antihemophilic Factor (Recombinant), Plasma/Albumin-Free Vial Kit contains: one prefilled diluent syringe containing 4 mL 0.9% Sodium Chloride with plunger rod for assembly, one vial adapter, one sterile infusion set, two alcohol swabs, one bandage, one gauze, and one package insert.

Actual factor VIII activity in IU is stated on the label of each XYNTHA Antihemophilic Factor (Recombinant), Plasma/Albumin-Free vial.

## 16.2 Storage and Handling

### Product as Packaged for Sale:

- Store XYNTHA under refrigeration at a temperature of 2° to 8°C (36° to 46°F) for up to 36 months from the date of manufacture until the expiration date stated on the label. Within the expiration date, XYNTHA may also be stored at room temperature not to exceed 25°C (77°F) for up to 3 months. After room temperature storage, XYNTHA can be returned to the refrigerator until the expiration date. Do not store XYNTHA at room temperature and return it to the refrigerator more than once.
- The starting date at room temperature storage should be clearly recorded in the space provided on the outer carton. At the end of the 3-month period, the product must be used immediately, discarded, or returned to refrigerated storage. The diluent syringe may be stored at 2° to 25°C (36° to 77°F).
- Do not use XYNTHA after the expiration date.
- Do not freeze to prevent damage to the prefilled diluent syringe.
- During storage, avoid prolonged exposure of XYNTHA vial to light.

### Product After Reconstitution:

Administer XYNTHA within 3 hours after reconstitution. The reconstituted solution may be stored at room temperature prior to administration.

## 17 PATIENT COUNSELING INFORMATION

### **See Patient Product Information and Instructions for Using XYNTHA.**

Advise patients to report any adverse reactions or problems following XYNTHA administration to their physician or healthcare provider.

- Advise patients that allergic-type hypersensitivity reactions are possible and inform them of the early signs of hypersensitivity reactions (including hives [rash with itching],

generalized urticaria, tightness of the chest, wheezing, hypotension) and anaphylaxis. Advise patients to discontinue use of the product and contact their physician 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 female patients to notify their physician if they become pregnant or intend to become pregnant during therapy.
- Advise nursing mothers to notify their physician if they are breastfeeding.
- Advise patients to consult with their healthcare professional prior to travel and to bring an adequate supply of XYNTHA, based on their current regimen, for anticipated treatment when traveling.

### **FDA-Approved Patient Labeling**

#### **Patient Product Information (PPI)**

**XYNTHA<sup>®</sup> /ZIN-tha/**

**[ANTHEMOPHILIC FACTOR (RECOMBINANT), PLASMA/ALBUMIN-FREE]**

Please read this Patient Information carefully before using XYNTHA and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your doctor about your medical problems or your treatment.

#### **What is XYNTHA?**

XYNTHA is an injectable medicine that is used to help control and prevent bleeding in people with hemophilia A. Hemophilia A is also called classic hemophilia.

XYNTHA is not used to treat von Willebrand's disease.

#### **What should I tell my doctor before using XYNTHA?**

Tell your doctor about all of your medical conditions, including if you:

- are pregnant or planning to become pregnant. It is not known if XYNTHA may harm your unborn baby.
- are breastfeeding. It is not known if XYNTHA passes into your milk and if it can harm your baby.

Tell your doctor and pharmacist about all of the medicines you take, including all prescription and non-prescription medicines, such as over-the-counter medicines, supplements, or herbal remedies.

### **How should I infuse XYNTHA?**

See the step-by-step instructions for infusing XYNTHA at the end of this leaflet. You should always follow the specific instructions given by your doctor. The steps listed below are general guidelines for using XYNTHA. If you are unsure of the procedures, please call your doctor or pharmacist before using.

### **Call your doctor right away if bleeding is not controlled after using XYNTHA.**

Your doctor will prescribe the dose that you should take.

Your doctor may need to take blood tests from time to time.

Talk to your doctor before traveling. You should plan to bring enough XYNTHA for your treatment during this time.

### **What if I take too much XYNTHA?**

Call your doctor if you take too much XYNTHA.

### **What are the possible side effects of XYNTHA?**

**Allergic reactions may occur with XYNTHA. Call your doctor or get emergency treatment right away if you have any of the following symptoms:**

- **wheezing**
- **difficulty breathing**
- **chest tightness**
- **turning blue (look at lips and gums)**
- **fast heartbeat**
- **swelling of the face**
- **faintness**
- **rash**
- **hives**

Your body can also make antibodies, called “inhibitors,” against XYNTHA, which may stop XYNTHA from working properly. Consult with your healthcare provider to make sure you are carefully monitored with blood tests for the development of inhibitors to factor VIII.

Some common side effects of XYNTHA are headache, fever, nausea, vomiting, diarrhea, or weakness. These are not all the possible side effects of XYNTHA.

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

### **How should I store XYNTHA?**

Do not freeze XYNTHA and protect from light.

Store XYNTHA in the refrigerator at 36° to 46°F (2° to 8°C). XYNTHA can last at room temperature (below 77°F) for up to 3 months. After room temperature storage, XYNTHA can be returned to the refrigerator until the expiration date. Do not store XYNTHA at room temperature and return it to the refrigerator more than once. If you store XYNTHA at room temperature, be careful to write down the date you put XYNTHA at room temperature, so you will know when to either put it back in the refrigerator, use it immediately, or throw it away. There is a space on the carton for you to write the date.

Throw away any unused XYNTHA after the expiration date.

Infuse XYNTHA within 3 hours of reconstitution. You may store the reconstituted solution at room temperature prior to infusion. If you have not used it in 3 hours, throw it away.

Store the diluent syringe at 36° to 77°F (2° to 25°C).

Do not use reconstituted XYNTHA if it is not clear to slightly opalescent and colorless.

Disposal of all XYNTHA materials, whether reconstituted or not, must be done using an appropriate medical waste container. Contact your healthcare professional if you need additional instructions.

### **What else should I know about XYNTHA?**

Medicines are sometimes prescribed for purposes other than those listed here. Do not use XYNTHA for a condition for which it is not prescribed. Do not share XYNTHA with other people, even if they have the same symptoms that you have.

This leaflet summarizes the most important information about XYNTHA. If you would like more information, talk to your doctor. You can ask your doctor or pharmacist for information about XYNTHA that was written for healthcare professionals.

### **Instructions for Using XYNTHA**

XYNTHA is supplied as a freeze-dried powder. Before it can be infused in your vein (intravenous injection), you must reconstitute the powder by mixing it with the liquid diluent supplied. The liquid diluent is 0.9% Sodium Chloride. XYNTHA should be reconstituted and infused using the infusion set, diluent, syringe, and adapter provided in this kit. Please follow the directions below for the proper use of this product.

Additional instructions for using XYNTHA are provided after the **INFUSION (Intravenous Injection)** section that details the use of a XYNTHA Vial Kit and a XYNTHA SOLOFUSE™ kit.

## **PREPARATION AND RECONSTITUTION OF XYNTHA**

### **Preparation**

1. Always wash your hands before doing the following steps.

2. Try to keep everything clean and germ-free while you are reconstituting XYNTHA.
3. Once you open the vials, you should finish reconstituting XYNTHA as soon as possible. This will help to keep them germ-free.

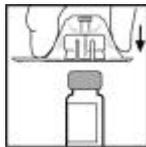
### Reconstitution

**Note:** If you use more than one vial of XYNTHA for each infusion, reconstitute each vial according to steps 1 through 11.

1. Let the vial of XYNTHA and the prefilled diluent syringe reach room temperature.
2. Remove the plastic flip-top cap from the XYNTHA vial to show the center part of the rubber stopper.



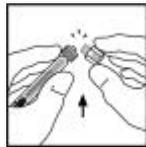
3. Wipe the top of the vial with the alcohol swab provided, or use another antiseptic solution, and allow to dry. After cleaning, do not touch the rubber stopper with your hand or allow it to touch any surface.
4. Peel back the cover from the clear plastic vial adapter package. **Do not remove the adapter from the package.**
5. Place the vial on a flat surface. While holding the adapter in the package, place the vial adapter over the vial. Press down firmly on the package until the adapter snaps into place on top of the vial, with the adapter spike going into the vial stopper.



6. Grasp the plunger rod as shown in the picture below. Do not touch the shaft of the plunger rod. Attach the threaded end of the plunger rod to the diluent syringe plunger by pushing and turning firmly.



7. Break off the tamper-resistant, plastic tip cap from the diluent syringe by snapping the perforation of the cap. Do not touch the inside of the cap or the syringe tip. The diluent syringe may need to be recapped (if reconstituted XYNTHA is not used immediately), so place the cap on its top on a clean surface in a spot where it will stay clean.



8. Lift the package cover away from the adapter and discard the package.



9. Place the vial on a flat surface. Connect the diluent syringe to the vial adapter by inserting the tip of the syringe into the adapter opening while firmly pushing and turning the syringe clockwise until the connection is secured.



10. Slowly push the plunger rod to inject all the diluent into the XYNTHA vial.

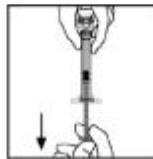


11. With the syringe still connected to the adapter, **gently** swirl the contents of the vial until the powder is dissolved.

Look at the final solution before infusing it. The solution should be clear to slightly opalescent and colorless. If it is not, throw away the solution and use a new kit.

12. Make sure the syringe plunger rod is still fully pressed down, then turn over the vial. Slowly pull the solution into the syringe. Turn the syringe upward again and remove any air bubbles by gently tapping the syringe with your finger and slowly pushing air out of the syringe.

If you reconstituted more than one vial of XYNTHA, remove the diluent syringe from the vial adapter and leave the vial adapter attached to the vial. Quickly attach a separate large luer lock syringe and pull the reconstituted solution as instructed above. Repeat this procedure with each vial in turn. Do not detach the diluent syringe or the large luer lock syringe until you are ready to attach the large luer lock syringe to the next vial adapter.



13. Remove the syringe from the vial adapter by gently pulling and turning the syringe counterclockwise. Throw away the vial with the adapter attached.

If you are not using the solution right away, you should carefully replace the syringe cap. Do not touch the syringe tip or the inside of the cap.

XYNTHA should be infused within 3 hours after reconstitution. The reconstituted solution may be stored at room temperature prior to infusion. If you have not used it in 3 hours, throw it away.

### **INFUSION (Intravenous Injection)**

Your doctor or healthcare professional should teach you how to infuse XYNTHA. Once you learn how to self-infuse, you can follow the instructions in this insert.

XYNTHA is administered by intravenous (IV) infusion after reconstitution of the freeze-dried powder with the diluent (0.9% Sodium Chloride). Once reconstituted, XYNTHA should be inspected visually for particulate matter and discoloration prior to administration.

XYNTHA should routinely be administered using the infusion set included in the kit.

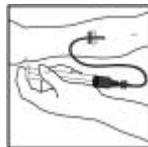
1. Attach the syringe to the luer end of the provided infusion set tubing.
2. Apply a tourniquet and prepare the injection site by wiping the skin well with an alcohol swab provided in the kit.



3. Remove the protective needle cover and insert the butterfly needle of the infusion set tubing into your vein as instructed by your doctor or healthcare professional. Remove the tourniquet. Infuse the reconstituted XYNTHA product over several minutes. Your comfort level should determine the rate of infusion.

As with any intravenous administration, always verify proper needle placement.

Discuss this procedure with your healthcare provider.



**Reconstituted XYNTHA should not be administered in the same tubing or container with other medicinal products.**

4. After infusing XYNTHA, remove the infusion set and discard. The amount of drug product left in the infusion set will not affect your treatment.

**Note:** Dispose of all unused solution, the empty vial(s), and other used medical supplies in an appropriate container used for throwing away medical waste that might hurt others if not handled properly.

It is a good idea to record the lot number from the XYNTHA vial label every time you use XYNTHA. You can use the peel-off label found on the vial to record the lot number.

## **ADDITIONAL INSTRUCTIONS FOR USING XYNTHA**

XYNTHA is also supplied in kits that include single-use prefilled dual-chamber syringes.

If you use more than one vial and/or prefilled dual-chamber syringe of XYNTHA per infusion, each vial and/or syringe should be reconstituted according to the specific directions for that respective product kit. A separate 10 cc or larger luer lock syringe (not included in this kit) may be used to draw back the reconstituted contents of each vial or syringe.

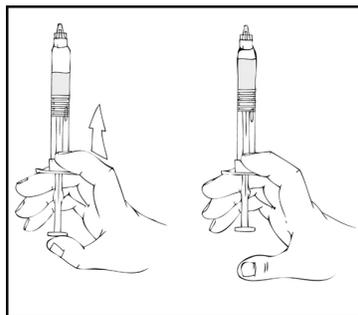
### **Use of a XYNTHA Vial Kit and a XYNTHA SOLOFUSE™ Kit**

These instructions are for the use of only one XYNTHA vial kit and one XYNTHA SOLOFUSE™ Kit. For further information, please contact your healthcare provider or call the Medical Information Department at Wyeth Pharmaceuticals, 1-800-438-1985.

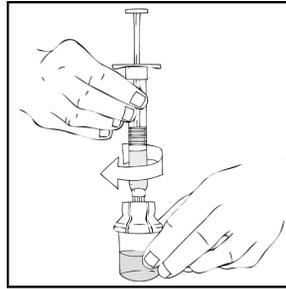
1. Reconstitute the XYNTHA vial using the instructions included with this kit. Detach the empty diluent syringe from the vial adapter by gently turning and pulling the syringe counterclockwise, leaving the contents in the vial and the vial adapter in place.



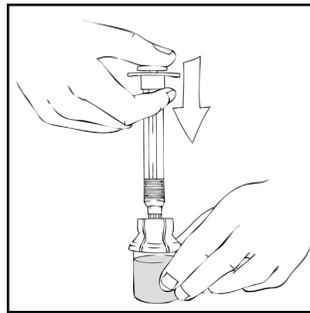
2. Reconstitute the XYNTHA SOLOFUSE™ using the instructions included with the kit, remembering to remove most, but not all, of the air from the drug product chamber.



3. After removing the protective blue vented cap, connect the XYNTHA SOLOFUSE™ to the vial adapter by inserting the tip into the adapter opening while firmly pushing and turning the syringe clockwise until secured.



4. Slowly depress the plunger rod of the XYNTHA SOLOFUSE™ until the contents empty into the XYNTHA vial. The plunger rod may move back slightly after release.

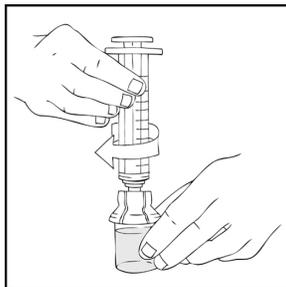


5. Detach and discard the empty XYNTHA SOLOFUSE™ from the vial adapter.

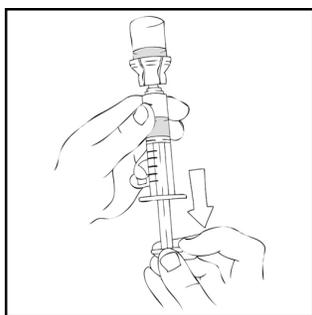
**Note:** If the syringe turns without detaching from the vial adapter, grasp the white collar and turn.



6. Connect a sterile 10 cc or larger luer lock syringe to the vial adapter. You may want to inject some air into the vial to make withdrawing the vial contents easier.

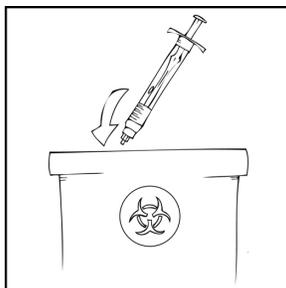


7. Invert the vial and slowly draw the solution into the 10 cc or larger luer lock syringe.



8. Detach the syringe from the vial adapter by gently turning and pulling the syringe counterclockwise. Discard the vial with the adapter attached.
9. Attach the infusion set to the 10 cc or larger luer lock syringe as directed [*see Dosage and Administration (2.5)*].

**Note:** Dispose of all unused solution and other used medical supplies in an appropriate container for throwing away medical waste that might hurt others if not handled properly.



**This Patient Package Insert has been approved by the U.S. Food and Drug Administration.**



This product's label may have been updated. For current package insert and further product information, please visit [www.wyeth.com](http://www.wyeth.com) or call our medical communications department toll-free at 1-800-438-1985.



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