

# Keep **HAE** attacks grounded

with plasma-free

 **RUCONEST**<sup>®</sup>  
C1 esterase inhibitor (recombinant)



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## A Patient's Guide

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### WHAT IS RUCONEST?

RUCONEST is an injectable prescription medicine that is used to treat acute attacks of hereditary angioedema (HAE) in adult and adolescent patients over the age of 12.

### IMPORTANT SAFETY INFORMATION

Do not use RUCONEST if you have experienced life-threatening immediate hypersensitivity reactions, including anaphylaxis, to RUCONEST or to any other C1 esterase inhibitor (C1-INH) product. Call your healthcare professional or the emergency department right away if you experience: wheezing, difficulty breathing, chest tightness, turning blue (look at lips and gums), fast heartbeat, swelling, faintness, rash or hives.

**Please read the full Prescribing Information, including Patient Product Information by clicking [here](#).**

## What is HAE?

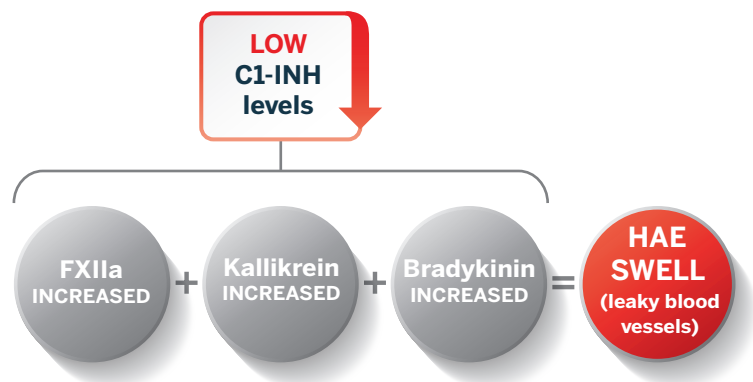
### The cause of HAE

Hereditary angioedema, also known as HAE, is linked to the blood protein C1 esterase inhibitor, or C1-INH.

- ▶ People who have HAE do not have enough C1-INH
- ▶ You can also have HAE if your C1-INH does not work well

The good news is that there are treatments that can help people with HAE.

### What happens in the body to cause HAE attacks?



When working C1-INH levels are too low, blood factor 12a (FXIIa) increases. This activates the enzyme kallikrein and increases the peptide bradykinin. The result is an HAE attack.

## Treat at the earliest signs and symptoms

### Learn to recognize triggers that lead to attacks

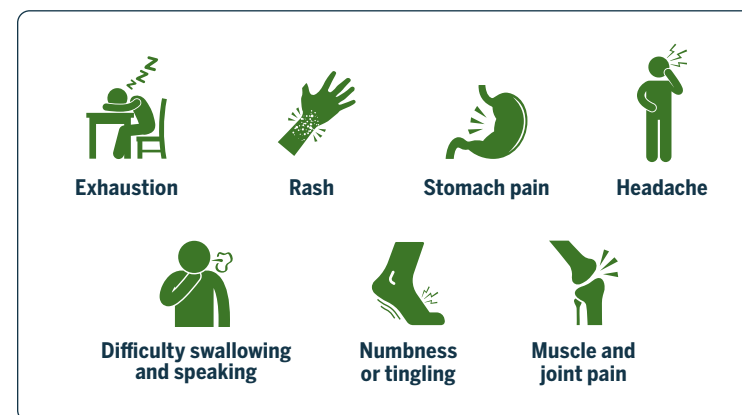
These may include:

- ▶ Anxiety
- ▶ Stress
- ▶ Minor injuries
- ▶ Medicines
- ▶ Infections
- ▶ Dental work
- ▶ Changes in hormones, like those that happen when women are pregnant or have their period

Still, many swells occur without a clear trigger.

### For best results, treat at the first sign of symptoms

Learn to recognize the signs that an HAE swell may be coming. Signs vary from person to person but may include:



## HAE is not an allergic reaction

- ▶ If you have HAE, you may have attacks of swelling
- ▶ An attack can lead to swelling in almost any part of your body

HAE attacks of swelling can:



Last for up to 3 days



Be extremely painful



Constrict airways



Happen at any moment and can get worse with time



Be life-threatening



Quickly progress to other parts of the body

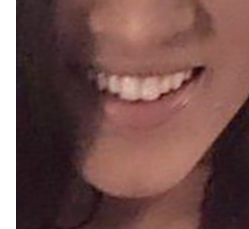
**These products are not indicated to treat HAE:**

- ▶ Prednisone
- ▶ Epinephrine
- ▶ Antihistamines

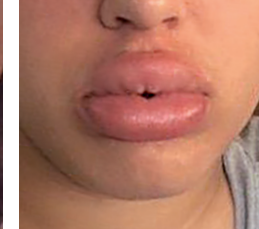
**Swelling can start in one area and spread to other areas**  
**In some cases, this can become life-threatening**

## HAE swells can vary each time

**Without swelling**



**During swelling**



Facial swelling during an HAE attack

**Without swelling**

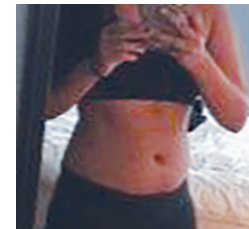


**During swelling**



Hand swelling during an HAE attack

**Without swelling**



**During swelling**



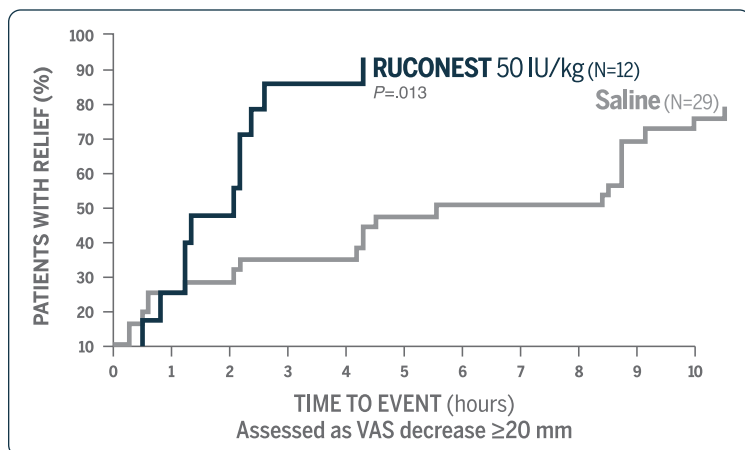
Abdominal swelling during an HAE attack

- ▶ Symptoms vary among individuals and attacks

## Rapid symptom relief in studies

- ▶ In Study 1, people taking RUCONEST started to see symptom relief in 90 minutes vs 152 minutes for placebo
- ▶ In an extension of the same study, patients started to see symptom relief in 75 minutes with RUCONEST

### Start to symptom relief in Studies 2 and 3



VAS, visual analog scale. The scale for the VAS is 0-100 mm).

**RUCONEST dosed at 50 U/kg IV brought C1-INH into the normal range for 94% of patients**

## Rapid symptom relief you can see

**This person experienced a moderate to severe attack before treatment**



Time of taking RUCONEST



1 hour after RUCONEST



4 hours after RUCONEST



24 hours after RUCONEST

- ▶ Actual symptom relief from a RUCONEST study. Results may vary

**RUCONEST rapidly treated this attack with just 1 dose**

### IMPORTANT SAFETY INFORMATION

Do not use RUCONEST if you have a known or suspected allergy to rabbits or rabbit-derived products. If you do not have a known rabbit allergy, testing is not required.

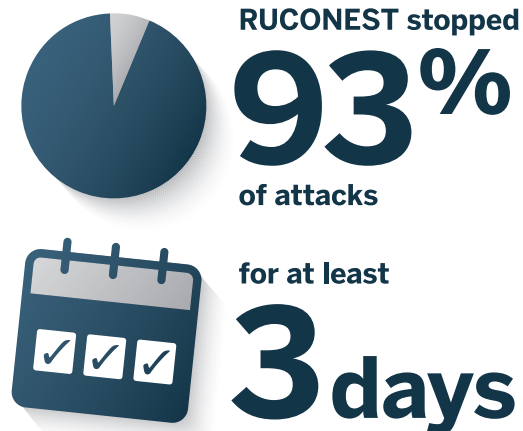
## Symptom relief with just 1 dose of RUCONEST



**97% OF ATTACKS NEEDED  
JUST ONE DOSE**

- **89%** of people needed just one 50 U/kg dose of RUCONEST per attack in a clinical study

## RUCONEST offered relief that lasts



- As shown in a review of studies that included 68 people (280 attacks)

### RUCONEST has a favorable tolerability profile

- In clinical trials, the most common adverse reactions reported (>2%) were headache, nausea, and diarrhea

### IMPORTANT SAFETY INFORMATION

Tell your healthcare provider about all your medical conditions, including if you have a known allergy to rabbits. Tell your healthcare provider about any other medications you are taking, as some medications, such as birth control pills and certain androgens, can increase risk of clotting problems. Also tell your healthcare provider if you are pregnant, breastfeeding, or planning to do so.

## Recombinant technology provides a reliable supply

### RUCONEST does not depend on human plasma donations to treat HAE

HUMAN PLASMA DONATIONS FOR 1 PERSON FOR 1 YEAR<sup>a</sup>



1.2

TONS

or

1400 DONATIONS  
Haegarda<sup>®b</sup> 2x a week



UP TO  
0.6

TONS

or

712 DONATIONS  
Cinryze<sup>®c</sup> 2x a week



Varies

or

470 DONATIONS  
Berinert<sup>®d</sup> if 2x a week



RUCONEST 50 IU/kg  
NO DONATIONS

Information is presented only to show how various products are sourced; it is not intended to suggest comparative safety or efficacy. Haegarda and Cinryze are used regularly to prevent attacks from happening. Trademarks are the property of their respective owners.

<sup>a</sup>Plasma yield ranges from 20%-50% (assumed 50%). <sup>b</sup>Haegarda<sup>®</sup> 60 IU/kg. <sup>c</sup>Cinryze<sup>®</sup> 1000-2500 U.

<sup>d</sup>Berinert<sup>®</sup> 20 IU/kg.

## RUCONEST is a plasma-free recombinant medicine

### Recombinant medicines have been used to help people with many diseases

Some examples include:

- ▶ **Arthritis**
  - Humira<sup>®</sup>
  - Simponi<sup>®</sup>
- ▶ **Asthma**
  - Xolair<sup>®</sup>
  - Nucala<sup>®</sup>
- ▶ **Diabetes**
  - Humulin<sup>®</sup> N
  - Humalog<sup>®</sup>
- ▶ **Hemophilia**
  - Alprolix<sup>®</sup>
  - Eloctate<sup>®</sup>
- ▶ **Cancer**
  - Herceptin<sup>®</sup>
  - Neulasta<sup>®</sup>
- ▶ **Blood Disorders**
  - Aranesp<sup>®</sup>
  - Epogen<sup>®</sup>

RECOMBINANT TECHNOLOGY  
HAS BEEN USED FOR

35 YEARS

### IMPORTANT SAFETY INFORMATION

For product information, adverse event reports, and product complaint reports, please contact Pharming U.S. toll-free:

**(844) 474-2764** Main corporate number

**(800) 930-5221** Adverse event, product complaints, medical information.

## Benefits of recombinant RUCONEST

### SUPPLY



**Reliable supply** that does not depend on plasma donations

### PURITY



**More than 99.998% free** of host-related impurities

### SAFETY



**Recombinant design** eliminates risk of human blood-borne viruses

### STABILITY



**4-year shelf life** when stored at **room temperature** (36°F-77°F)

## RUCONEST for Women of Childbearing Age

**There are no adequate and well-controlled studies of RUCONEST or any HAE treatment in pregnant women**



RUCONEST 50 U/kg (max 4200 U) was administered to pregnant women for acute HAE attacks or prophylaxis in a retrospective case collection study (n=14)



All women delivered at full term without complications



No adverse events related to RUCONEST treatment were reported

► These data cannot definitively establish the absence of any risk because of the small sample size

### IMPORTANT SAFETY INFORMATION

The most common side effects patients experienced during clinical studies include headache, nausea and diarrhea. These are not all the possible side effects of RUCONEST.



## RUCONEST is an On-The-Go Treatment

### RUCONEST Can Travel With You



RUCONEST is portable and can be self-administered after training



After reconstitution, RUCONEST is injected over 5 minutes with a small butterfly needle



Prior to reconstitution

- ▶ RUCONEST doesn't need to be refrigerated
- ▶ RUCONEST has a 4-year shelf life when stored at room temperature (33°F-77°F)



## RUCONEST can be Self Administered

After being trained

**~85%**

of Ruconest patients  
**were confident  
self-injecting their IV**



**Initial training may be  
done by your doctor**



# RUCONEST SOLUTIONS: Support you can count on

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## RUCONEST SOLUTIONS provides nursing support



RUCONEST can be self-administered.  
**Dedicated nurses provide training** in  
your own home as often as you need it<sup>a</sup>



**Training on appropriate vein care**  
that can help support long-term  
self-administration of RUCONEST



Developing your individualized  
**Emergency Care Plan**



Coordinating **on-demand home infusion  
services** by a specialty pharmacy nurse if  
you're not able to self-administer RUCONEST

<sup>a</sup>Availability subject to your geographic location.

## RUCONEST SOLUTIONS: Support you can count on



A personal case manager to help you with **insurance coverage and access** to RUCONEST










**Ongoing support** to answer your questions and be certain you have the medicine you need



The **RUCONEST app** provides free tools to help you stay informed and track your swells

To contact RUCONEST SOLUTIONS,  
call 1-855-613-4423, or visit [www.RUCONEST.com](http://www.RUCONEST.com)

## Keep HAE attacks grounded with plasma-free RUCONEST

-  97% of acute attacks were successfully treated with **just one dose**
-  Relief that lasted **for at least three days**
-  High dose of C1-INH **to treat the root cause of HAE**
-  Symptom relief that's proven **rapid and reliable**
-  Recombinant design with a **dependable supply**
-  **Individualized nurse support**
-  **Most common side effects included headache, nausea, and diarrhea**

To get more information, visit [www.RUCONEST.com](http://www.RUCONEST.com)

My Healthcare Provider's Name

Phone Number

RUCONEST SOLUTIONS



**RUCONEST  
SOLUTIONS**  
Expertise. Delivered personally.



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