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**Valid only for Teva's Icatibant Injection, National Drug Codes:
00093-3066-34 and 00093-3066-93**

To the Patient: By redeeming this Program, you acknowledge that you are an Eligible Patient and you understand and agree to comply with the terms and conditions of this Program.

This Program is for eligible **Commercially Insured Patients only**. Patients may pay as little as \$0 out of pocket for Teva's Icatibant Injection. Maximum Program assistance per prescription and annual benefits apply and out-of-pocket expenses may vary. This Program must be presented along with your prescription for Icatibant Injection and your primary insurance card to participate in this Program. Program not valid for Non-Insured/Cash-Paying Patients or where Teva's Icatibant Injection is not covered by the primary insurance.

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Reimbursement will be received from Mercialis. For questions regarding processing, please call the Help Desk at 844-248-7949.

Please see the accompanying full Prescribing Information on the following pages.

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teva

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use ICATIBANT INJECTION safely and effectively. See full prescribing information for ICATIBANT INJECTION.

ICATIBANT injection, for subcutaneous use
Initial U.S. Approval: 2011

INDICATIONS AND USAGE

Icatibant Injection is a bradykinin B2 receptor antagonist indicated for treatment of acute attacks of hereditary angioedema (HAE) in adults 18 years of age and older. (1)

DOSAGE AND ADMINISTRATION

- 30 mg injected subcutaneously in the abdominal area. (2.1)
- If response is inadequate or symptoms recur, additional injections of 30 mg may be administered at intervals of at least 6 hours. (2.1)
- Do not administer more than 3 injections in 24 hours. (2.1)
- Patients may self-administer upon recognition of an HAE attack. (2.2)

DOSAGE FORMS AND STRENGTHS

Injection: 10 mg per mL (3)

CONTRAINDICATIONS

None (4)

WARNINGS AND PRECAUTIONS

Laryngeal attacks: Following treatment of laryngeal attacks with icatibant, advise patients to seek immediate medical attention. (5.1)

ADVERSE REACTIONS

The most commonly reported adverse reactions were injection site reactions, which occurred in almost all patients (97%) in clinical trials. Other common adverse reactions occurring in greater than 1% of patients included pyrexia, transaminase increase, dizziness, and rash. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Teva at 1-888-838-2872 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

USE IN SPECIFIC POPULATIONS

Elderly patients demonstrate increased systemic exposure to icatibant. Differences in efficacy and safety between elderly and younger patients have not been identified. (8.5)

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

Revised: 2/2024

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Icatibant Injection is indicated for the treatment of acute attacks of hereditary angioedema (HAE) in adults 18 years of age and older.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosing

The recommended dose of Icatibant Injection is 30 mg administered by subcutaneous (SC) injection in the abdominal area. Additional doses may be administered at intervals of at least 6 hours if response is inadequate or if symptoms recur. No more than 3 doses may be administered in any 24 hour period.

2.2 Administration Instructions

Icatibant Injection should be inspected visually for particulate matter and discoloration prior to administration. The drug solution should be clear and colorless. Do not administer if the product contains particulates or is discolored.

Attach the provided 25 gauge needle to the syringe hub and screw on securely. Do not use a different needle. Disinfect the injection site and administer icatibant by subcutaneous injection over at least 30 seconds.

Patients may self-administer Icatibant Injection upon recognition of symptoms of an HAE attack after training under the guidance of a healthcare professional [*see Patient Counseling Information (17)*].

3 DOSAGE FORMS AND STRENGTHS

Icatibant Injection is supplied in a prefilled syringe delivering 30 mg icatibant. Each syringe delivers 3 mL solution with a concentration of 10 mg per mL.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Laryngeal Attacks

Given the potential for airway obstruction during acute laryngeal HAE attacks, patients should be advised to seek medical attention in an appropriate healthcare facility immediately in addition to treatment with icatibant.

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

The safety of icatibant was evaluated in three controlled trials that included 223 patients who received icatibant 30 mg (n=113), placebo (n=75), or comparator (n=38). The mean age at study entry was 38 years (range 18 to 83 years), 64% were female, and 95% were white. The data described below represent adverse reactions observed from the two placebo-controlled trials, consisting of 77 patients who received icatibant at a dose of 30 mg SC, and 75 who received placebo.

The most frequently reported adverse reactions (occurring in greater than 1% of patients and at a higher rate with icatibant versus placebo) are shown in Table 1.

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 practice.

Table 1: Adverse Reactions Observed in >1% of Patients with Acute Attacks of HAE and at a Higher Rate with Icatibant versus Placebo in the Placebo-controlled Trials^a

	Icatibant (N=77)	Placebo (N=75)
System Organ Class Preferred Term	Subjects (%)	Subjects (%)
General disorders and administration site conditions		
Injection site reaction ^b	75 (97)	25 (33)
Pyrexia	3 (4)	0
Investigations		
Transaminase increased	3 (4)	0
Nervous system disorders		
Dizziness	2 (3)	1 (1)

^a Events occurring within 14 days of study drug administration

^b Injection site bruising, Injection site hematoma, Injection site burning, Injection site erythema, Injection site hypoesthesia, Injection site irritation, Injection site numbness, Injection site edema, Injection site pain, Injection site pressure sensation, Injection site pruritus, Injection site swelling, Injection site urticaria, and Injection site warmth

The third trial was active-controlled and was comprised of 35 patients who received icatibant 30 mg and 38 patients who received the comparator. Adverse reactions for icatibant were similar in nature and frequency to those reported in Table 1.

In all three controlled trials, patients were eligible for treatment of subsequent attacks in an open-label extension. Patients were treated with Icatibant Injection 30 mg and could receive up to 3 doses of Icatibant Injection 30 mg administered at least 6 hours apart for each attack. A total of 225 patients were treated with 1,076 doses of 30 mg Icatibant Injection for 987 attacks of acute HAE. Adverse reactions similar in nature and frequency were observed to those seen in the controlled phase of the trials. Other adverse reactions reported included rash, nausea, and headache in patients exposed to Icatibant Injection.

The safety of self-administration was evaluated in a separate, open-label trial in 56 patients with HAE. In this trial, the safety profile of Icatibant Injection in patients who self-administered Icatibant Injection was similar in nature and frequency to that of patients whose therapy was administered by healthcare professionals.

6.2 Immunogenicity

Across repeated treatment in the controlled trials, 4 patients tested positive for anti-icatibant antibodies. Three of these patients had subsequent tests which were negative. No hypersensitivity or anaphylactic reactions were reported with icatibant. No association between anti-icatibant antibodies and efficacy was observed.

6.3 Postmarketing Experience

The following adverse reactions have been identified during post approval use of icatibant: urticaria. Because these events 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

7.1 ACE Inhibitors

Icatibant is a bradykinin B2 receptor antagonist and thereby has the potential to have a pharmacodynamic interaction with ACE inhibitors where icatibant may attenuate the antihypertensive effect of ACE inhibitors. Clinical trials to date have excluded subjects taking ACE inhibitors.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Available data from published literature and the pharmacovigilance database with icatibant use in pregnant women have not identified a drug-associated risk of major birth defects, miscarriage or adverse maternal or fetal outcomes. In animal reproduction studies, icatibant, administered by the subcutaneous route during the period of organogenesis, did not cause structural abnormalities in rats or rabbits; however, premature birth and abortion were observed in rabbits at doses approximately 0.025 times the maximum recommended human dose (MRHD) and higher. Decreased embryofetal survival was observed in rabbits at a subcutaneous dose that was 13 times the MRHD. In a pre- and post-natal development study in rats, delayed parturition was observed at subcutaneous doses 0.5 times the MRHD and higher, which resulted in deaths of dams at doses 2 times the MRHD and higher. Fetal death and early pup deaths were observed with doses 2 times the MRHD (*see Data*). The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Data

Animal Data

In an embryo-fetal development study with rats that received icatibant from gestation days 7 to 18, there was no evidence of any treatment-related structural abnormalities or effects on embryo-fetal survival with maternal doses up to 2.7 times the MRHD (on a mg/m² basis with maternal subcutaneous doses up to 25 mg/kg/day). In a fertility and early embryonic development study with rats, icatibant increased preimplantation loss at a dose that was 7 times the MRHD (on an AUC basis at a maternal dose of 10 mg/kg/day).

In an embryo-fetal development study with rabbits that received icatibant from gestation days 7 to 18, premature birth and abortion rates increased at doses approximately 0.025 times the MRHD and higher (on a mg/m² basis at maternal subcutaneous doses of 0.1 mg/kg and higher). Icatibant treatment resulted in dose-related decreases of total implantations and total number of live fetuses as well as dose-related increases of percent pre-implantation loss at a dose that was 13 times the MRHD (on an AUC basis with a maternal subcutaneous dose of 10 mg/kg/day). There was no evidence of any treatment-related structural abnormalities with maternal doses up to 13 times the MRHD (on an AUC basis with maternal subcutaneous doses up to 10 mg/kg/day).

In a pre- and post-natal development study in the rat, dams received icatibant by the subcutaneous route at doses of 1, 3, and 10 mg/kg/day from gestation day 6 to post-partum (PPD) day 20. Delayed parturition was observed at doses 0.5 times the MRHD and higher (on an AUC basis with maternal subcutaneous doses of 1 mg/kg/day and higher), which resulted in deaths of dams at doses 2 times the MRHD and higher (on an AUC basis with maternal subcutaneous doses of 3 mg/kg/day and higher). Fetal death and increased pup deaths through PPD 4 were observed with doses 2 times the MRHD (on an AUC with a maternal subcutaneous dose of 3 mg/kg/day and higher). Impairment of pup righting reflex and decreased pup hair growth were also observed at 7 times the

MRHD (on an AUC basis with a maternal dose of 10 mg/kg). Icatibant and the M2 metabolite were found in maternal milk following subcutaneous administration of icatibant. The no effect dose for F1 pups was identified at a dose 0.5 times the MRHD (on an AUC basis with a maternal subcutaneous dose of 1 mg/kg/day). A no effect dose was not identified for F₀ maternal toxicity.

8.2 Lactation

Risk Summary

There are no data on the presence of icatibant in human milk, the effects on the breastfed infant, or the effects on milk production. Icatibant and the M2 metabolite were found in rat milk following subcutaneous administration of icatibant (*see Data*). When a drug is present in animal milk, it is likely that the drug will be present in human milk. However, systemic absorption of icatibant in infants is not expected after oral exposure through breast milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for icatibant and any potential adverse effects on the breastfed child from icatibant or from the underlying maternal condition.

Data

Animal Data

Icatibant is excreted into the milk of lactating rats at concentrations that sometimes slightly exceeded those measured in the maternal plasma.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients below the age of 18 years have not been established.

Juvenile Toxicity Data

Subcutaneous daily administration of icatibant to young rats during the juvenile period of development (postnatal days 22 to 70) delayed the sexual maturation of male reproductive tissues (atrophy of testes and epididymides) at exposures approximating one-third or greater the MRHD on a mg/m² basis. Impaired fertility and reproductive performance were also observed in male rats at the end of the postnatal treatment period at exposures approximating the MRHD or greater on a mg/m² basis. No effects were observed in females at exposures approximating 3-fold the MRHD on a mg/m² basis. The observed tissue findings in males were consistent with those seen in sexually mature rats and dogs and are attributed to antagonism of the bradykinin B₂ receptor and subsequent effects on gonadotropins. The observed effects may be a consequence of daily icatibant administration. Toxicity to the testis did not occur in dogs treated twice a week for 9 months [*see Carcinogenesis, Mutagenesis, Impairment of Fertility (13.1)*].

8.5 Geriatric Use

Clinical studies of icatibant did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Elderly patients are likely to have increased systemic exposure to icatibant compared to younger (18 to 45 years) patients [*see Clinical Pharmacology (12.3)*]. Since other reported clinical experience has not identified differences in efficacy and safety between elderly and younger patients, no dose adjustment is recommended.

8.6 Hepatic Impairment

Icatibant was studied in patients with mild to moderate (Child Pugh scores of 5 to 8) hepatic impairment. No change in systemic exposure is noted in these patient populations. No dose adjustment is required in patients with hepatic impairment [*see Clinical Pharmacology (12.3)*].

8.7 Renal Impairment

Although a formal renal impairment study has not been conducted, 10 of 37 patients treated with icatibant had hepatorenal syndrome with glomerular filtration rate (GFR) below 60 mL/min. Icatibant is cleared non-renally and hence it is not expected to show any change in systemic exposure in patients with impaired renal function. No dose adjustment is required in patients with renal impairment [see *Clinical Pharmacology (12.3)*].

10 OVERDOSAGE

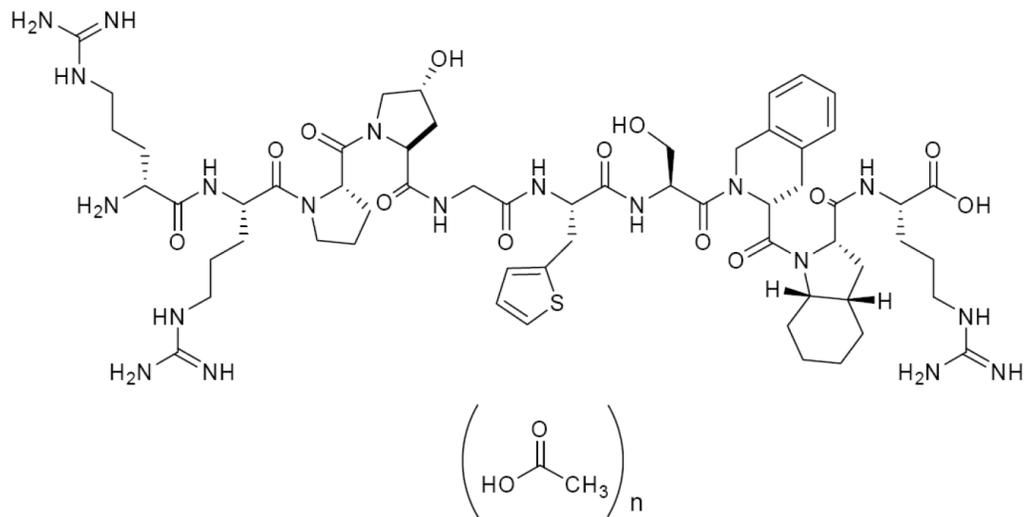
In a clinical study evaluating a 90 mg dose (30 mg in each of 3 subcutaneous sites), the adverse event profile was similar to that seen with 30 mg administered in a single subcutaneous site.

In another clinical study, a dose of 3.2 mg/kg administered intravenously (approximately 8 times the therapeutic dose for HAE) caused erythema, itching and hypotension in healthy subjects. No therapeutic intervention was necessary.

11 DESCRIPTION

Icatibant is a synthetic decapeptide with five non-proteinogenic amino acids. The chemical structure of icatibant acetate is presented in Figure 1.

Figure 1 Chemical Structure



Chemical name: D-Arginyl-L-arginyl-L-prolyl-L-[(4R)-4-hydroxyprolyl]-glycyl-L-[3-(2-thienyl)alanyl]-L-seryl-D-(1,2,3,4-tetrahydroisoquinolin-3-ylcarbonyl)-L-[(3aS,7aS)-octahydroindol-2-ylcarbonyl]-L-arginine, acetate salt

Icatibant Injection is provided as a sterile, isotonic, and buffered solution of icatibant acetate in a single-dose, prefilled syringe for subcutaneous administration. Each mL of the solution contains 10 mg of icatibant (free base) which is equivalent to 11.38 mg of icatibant acetate. Each prefilled syringe delivers 3 mL of solution equivalent to a 30 mg icatibant dose. The solution is clear and colorless.

The solution also contains sodium chloride (isotonicity reagent), glacial acetic acid (pH adjuster), sodium hydroxide (pH adjuster) and water for injection with a pH of approximately 5.5. The solution does not contain preservatives.

Pharmacological class: Icatibant is a bradykinin B2 receptor antagonist.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Icatibant is a competitive antagonist selective for the bradykinin B2 receptor, with an affinity similar to bradykinin. Hereditary angioedema is caused by an absence or dysfunction of C1-esterase-inhibitor, a key regulator of the Factor XII/kallikrein proteolytic cascade that leads to bradykinin production. Bradykinin is a vasodilator which is thought to be responsible for the characteristic HAE symptoms of localized swelling, inflammation, and pain. Icatibant inhibits bradykinin from binding the B2 receptor and thereby treats the clinical symptoms of an acute, episodic attack of HAE.

12.2 Pharmacodynamics

Following bradykinin challenge, intravenous administration of icatibant caused dose and time-dependent inhibition of development of bradykinin-induced hypotension, vasodilation, and reflex tachycardia in healthy young subjects. Icatibant intravenous doses of 0.4 and 0.8 mg/kg infused over 4 hours inhibited response to bradykinin challenge for 6 to 8 hours following completion of the infusion. Based on exposure-response analysis, a subcutaneous dose of 30 mg icatibant is predicted to be effective against bradykinin challenge for at least 6 hours. The clinical significance of these findings is unknown.

The effect of icatibant 30 and 90 mg following a single subcutaneous injection on QTc interval was evaluated in a randomized, placebo-, and active-controlled (moxifloxacin 400 mg) four-period crossover thorough QT study in 72 healthy subjects. In a study with demonstrated ability to detect small effects, the upper bound of the one-sided 95% confidence interval for the largest placebo adjusted, baseline-corrected QTc based on individual correction method (QTcI) was below 10 ms, the threshold for regulatory concern. The dose of 90 mg is adequate to represent the high exposure clinical scenario.

12.3 Pharmacokinetics

The pharmacokinetics of icatibant has been characterized in studies using both intravenous and subcutaneous administration to healthy subjects and patients. The pharmacokinetic profile of icatibant in patients with HAE is similar to that in healthy subjects.

The absolute bioavailability of icatibant following a 30 mg subcutaneous dose is approximately 97%. Following subcutaneous administration of a single 30 mg dose of icatibant to healthy subjects (N=96), a mean (\pm standard deviation) maximum plasma concentration (C_{max}) of 974 ± 280 ng/mL was observed after approximately 0.75 hours. The mean area under the concentration-time curve ($AUC_{0-\infty}$) after a single 30 mg dose was 2165 ± 568 ng•hr/mL, with no evidence of accumulation of icatibant following three 30 mg doses administered 6 hours apart. Following subcutaneous administration, plasma clearance was 245 ± 58 mL/min with a mean elimination half-life of 1.4 ± 0.4 hours and volume of distribution at steady state (V_{ss}) of 29.0 ± 8.7 L.

Icatibant is extensively metabolized by proteolytic enzymes to inactive metabolites that are primarily excreted in the urine, with less than 10% of the dose eliminated as unchanged drug. Icatibant is not degraded by oxidative metabolic pathways, is not an inhibitor of major cytochrome P450 (CYP) isoenzymes (CYP 1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, 2E1, and 3A4) and is not an inducer of CYP 1A2 and 3A4.

Special populations

Hepatic Impairment

The pharmacokinetic parameters of icatibant were found to be generally comparable between healthy subjects (n=8) and mild to moderate (Child Pugh scores of 5 to 8) hepatic impaired patients (n=8) following a dose of 0.15 mg/kg/day as continuous intravenous infusion over 3 days. In a separate study, icatibant clearance in subjects with a wide range of hepatic impairment (Child-Pugh scores of 7 to 15) was similar to that in healthy subjects. No dose adjustment is necessary for patients with impairment of hepatic function [see *Use in Specific Populations (8.6)*].

Renal Impairment

Since renal clearance of icatibant is a minor eliminating pathway, renal impairment is not expected to affect the pharmacokinetics of icatibant and hence a formal renal impairment study was not conducted for icatibant. In 10 patients with hepatorenal syndrome (GFR 30 to 60 mL/min), clearance of icatibant was not dependent on renal function and therefore, did not show any observable differences in the plasma levels of icatibant or its metabolites compared to subjects with normal renal function. No dose adjustment is necessary for patients with impairment of renal function [see *Use in Specific Populations (8.7)*].

Age and Gender

Three 30 mg subcutaneous doses of icatibant administered every 6 hours were studied in young (18 to 45 years of age) and elderly (over 65 years of age) healthy male and female subjects. Following single-dose administration of 30 mg subcutaneous icatibant, elderly males and females showed approximately 2-fold higher AUC compared to young males and females, respectively. However, only minor differences (~12 to 14%) between C_{max} of gender-matched elderly and young subjects were observed. Older subjects tend to exhibit lower clearance compared to younger subjects and therefore higher systemic exposure. Gender effect on icatibant pharmacokinetics was also observed in addition to age effect. Clearance of icatibant is significantly correlated with bodyweight with lower clearance values noted for lower bodyweights. Hence, females with typically lower body weights compared to males exhibit lower clearance values, resulting in approximately 2-fold higher systemic exposure (both AUC and C_{max}) compared to males. Differences in efficacy and safety between elderly and younger patients and male and female patients have not been identified. Dose adjustment based on age and gender is not warranted.

Drug Interactions

Formal drug-drug interaction studies were not conducted with icatibant. Icatibant metabolism is not mediated by CYP450 enzymes. *In vitro* study did not show any significant inhibition and/or induction of drug metabolizing CYP450 enzymes; therefore, metabolic drug interactions between icatibant and CYP450 substrates, inhibitors and inducers are not expected.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Two-year studies were conducted in CD1 mice and Wistar rats to assess the carcinogenic potential of icatibant. No evidence of tumorigenicity was observed in mice and rats at icatibant subcutaneous doses up to 15 mg/kg/day (twice per week) and 6 mg/kg/day (daily), respectively (approximately 10-fold and 6-fold greater than the MRHD on an AUC basis, respectively).

Icatibant tested negative for genotoxicity in the *in vitro* Ames bacterial reverse mutation test, *in vitro* Chinese hamster bone marrow chromosome aberration assay, and *in vivo* mouse micronucleus test.

Daily subcutaneous administration of icatibant to rats and dogs caused ovarian, uterine, and testicular atrophy/degeneration and adverse effects on the mammary and prostate glands. In rats, testicular atrophy, reduced prostate gland secretion, decreased testosterone levels and degenerate corpora lutea occurred at doses greater than or equal to 3 mg/kg (approximately 5-fold greater than the MRHD in males and 2-fold greater than the MRHD in females on an AUC basis) and a decrease in developing ovarian follicles, mammary gland masculinization, and uterine atrophy occurred at doses greater than or equal to 10 mg/kg (approximately 6-fold greater than MRHD in females on an AUC basis). In dogs, reduced sperm counts and uterine atrophy occurred at doses greater than or equal to 1 mg/kg (approximately 2-fold greater than the MRHD on an AUC basis). Atrophy of the testes and prostate with decreased testosterone levels, decreased ovary size and decreased number of developing follicles occurred at a dose of 10 mg/kg (approximately 30-fold greater than the MRHD in males and 15-fold greater than at the MRHD in females on an AUC basis).

In contrast to the effects of daily icatibant administration, toxicity to the ovary, uterus, testis, mammary gland, and prostate did not occur in dogs treated twice a week for 9 months. AUC exposures from a dose of 3 mg/kg in these dogs were 5- and 3-fold the MRHD exposures in men and women, respectively. Sperm counts and testosterone remained unaffected over the course of the study in male dogs dosed twice a week.

Reproduction studies in male mice and rats with daily administration of icatibant found no effects on fertility or reproductive performance with intravenous doses up to 81 mg/kg (approximately 5-fold greater than the MRHD on a mg/m² basis) or subcutaneous doses up to 10 mg/kg (approximately 11-fold greater than the MRHD on an AUC basis), respectively.

13.2 Animal Toxicology and/or Pharmacology

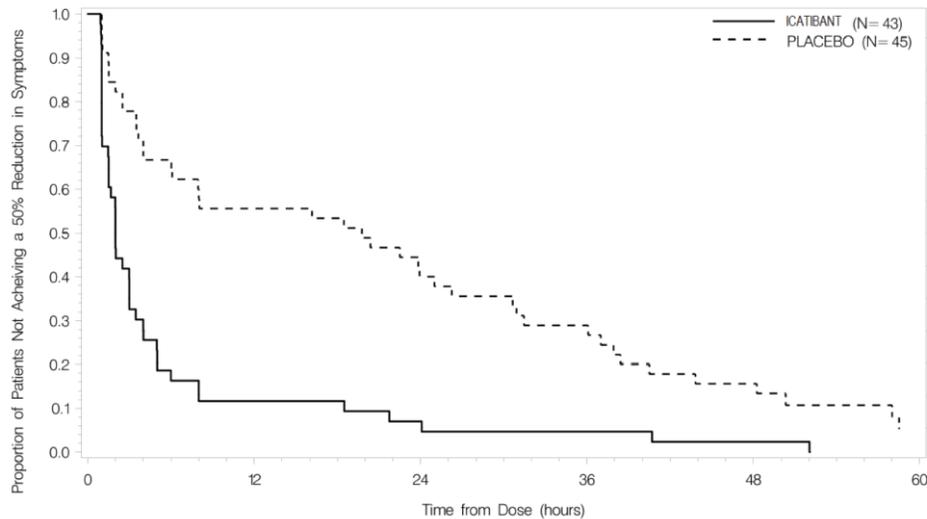
The B2 receptor has been implicated in the cardioprotective effects of bradykinin and antagonism of this receptor could potentially have negative cardiovascular effects during reperfusion after acute ischemia. Icatibant decreased coronary blood flow in the isolated guinea pig heart and aggravated the duration of post-ischemic reperfusion arrhythmias in the isolated rat heart. Intracoronary infusion of icatibant in an anesthetized myocardial infarction dog model increased mortality rate 2-fold over saline ischemia. There is limited human experience in acute ischemia. Icatibant should be used during acute coronary ischemia, unstable angina pectoris, or in the weeks following a stroke only if the benefit exceeds the theoretical risk to the patient.

14 CLINICAL STUDIES

The efficacy and safety of icatibant for the treatment of acute attacks of HAE in adults were studied in three controlled clinical trials. Among the 223 patients in these studies, the mean age was 38 years, 64% were female, and 95% were white. Approximately 57% of patients reported use of attenuated androgens, antifibrinolytic agents, or C1 inhibitors. Response to therapy was primarily assessed using visual analog scores on a 100 mm scale and patient- and physician-reported symptom scores for abdominal and cutaneous pain and swelling.

Trial 1 was a randomized, placebo-controlled, double-blind, parallel-group study of 98 adult patients with a median age of 36 years. Patients who had developed moderate to severe cutaneous or abdominal or mild to moderate laryngeal attacks of HAE were randomized to receive either icatibant 30 mg or placebo by subcutaneous injection. Patients with severe laryngeal attacks of HAE received open-label icatibant 30 mg. The primary endpoint was assessed using a 3-item composite visual analog score (VAS), comprised of averaged assessments of skin swelling, skin pain, and abdominal pain. Response was defined as at least a 50% reduction from the pretreatment composite 3-item VAS score (Figure 2). The median time to 50% reduction in symptoms for patients with cutaneous or abdominal attacks treated with icatibant (n=43) compared to placebo (n=45) was 2.0 hours [95% CI 1.5, 3.0] versus 19.8 hours [95% CI 6.1, 26.3], respectively (p<0.001).

Figure 2 Time to 50% reduction from baseline in 3-item VAS score.



Other evaluated endpoints included time to almost complete symptom relief (VAS<10 mm) and rescue medication use. In Trial 1, the median times to almost complete symptom relief were 8.0 versus 36.0 hours for icatibant and placebo, respectively. In terms of rescue medication use, 3/43 (7%) patients treated with icatibant used additional rescue medication in comparison to 18/45 (40%) patients treated with placebo.

In a second placebo-controlled trial and an active-controlled trial, a total of 26 and 35 patients, respectively, received icatibant 30 mg for the treatment of an acute HAE attack. Across the three trials, icatibant had a median time to 50% reduction from baseline symptoms ranging from 2.0 to 2.3 hours.

Recurrent attacks

In all three controlled trials, patients were eligible for treatment of subsequent attacks in an open-label extension. Patients were treated with icatibant 30 mg and could receive up to 3 doses of icatibant 30 mg administered at least 6 hours apart for each attack. A total of 225 patients were treated with 1,076 doses of 30 mg icatibant for 987 attacks of acute HAE in these trials. In an assessment of the first 5 icatibant-treated attacks (621 doses for 582 attacks), the median times to a 50% reduction from the pretreatment composite 3-itemVAS score were similar across attacks (2.0, 2.0, 2.4, 2.0, 1.5 hours). The majority (93%) of these attacks of HAE were treated with a single-dose of icatibant.

Laryngeal attacks

A total of 60 patients with laryngeal attacks were treated with icatibant in the controlled trials. Efficacy results were similar to those observed for non-laryngeal (cutaneous and abdominal) sites of attack.

Self-administration

Self-administration of icatibant by 56 patients was assessed in an open label trial. Patients who administered icatibant during an acute attack of HAE had a median time to 50% reduction from the pretreatment composite 3-itemVAS score of 2.6 hours.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Icatibant Injection is supplied as a single-dose, prefilled syringe for subcutaneous administration. Each syringe delivers 3 mL of a sterile solution of icatibant 30 mg (as icatibant acetate). Each glass syringe has a bromobutyl plunger stopper, which is not made of latex natural rubber.

Icatibant Injection is available in cartons containing one single-dose, prefilled syringe and one 25 G Luer lock needle. NDC 0093-3066-34.

Icatibant Injection is also available in a pack containing 3 cartons; each carton contains one single-dose, prefilled syringe and one 25 G Luer lock needle. NDC 0093-3066-93.

16.2 Storage and Handling

Store between 2° to 25°C (36° to 77°F).

Do not freeze.

Store in carton until time of administration.

Keep this and all medications out of the reach of children.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information and Instructions for Use).

17.1 Information for Patients

Patients may self-administer Icatibant Injection upon recognition of an HAE attack after training under the guidance of a healthcare professional.

Patients with laryngeal symptoms should seek medical attention immediately in an appropriate healthcare facility after administration of Icatibant Injection [see *Warnings and Precautions (5.1)*].

Injection site reactions are reported in most patients after administration of Icatibant Injection. Other adverse reactions reported after administration of Icatibant Injection include pyrexia, increase in transaminases, dizziness, and rash [see *Adverse Reactions (6.1)*].

Tiredness, drowsiness, and dizziness have been reported following the use of Icatibant Injection. Patients should be advised not to drive or use machinery if they feel tired or dizzy.

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PATIENT INFORMATION

Icatibant (eye ka' ti bant) Injection, for subcutaneous use

Please read this Patient Information before you use Icatibant Injection and each time you get a refill. There may be new information. This information does not take the place of talking with your healthcare provider about your medical condition or your treatment.

What is Icatibant Injection?

- Icatibant is a medicine used to treat acute attacks of hereditary angioedema (HAE) in adults 18 years and older.
- It is not known if icatibant is safe or effective for children under 18 years of age.

What should I tell my healthcare provider before using Icatibant Injection?

Before you use Icatibant Injection, tell your healthcare provider about all your medical conditions including if you:

- are pregnant or plan to become pregnant. It is not known if icatibant will harm your unborn baby. You and your healthcare provider will decide if icatibant is right for you.
- are breastfeeding or plan to breastfeed. It is not known if icatibant passes into your breast milk. Talk to your healthcare provider about the best way to feed your baby if you use icatibant.

Tell your healthcare provider about all the medicines you take, including prescription and over the counter medicines, vitamins, and herbal supplements.

How should I use Icatibant Injection?

- Read the Instructions for Use at the end of this Patient Information leaflet for detailed instructions about the right way to use Icatibant Injection.
- Use Icatibant Injection exactly as your healthcare provider tells you to use it.
- Your healthcare provider will prescribe the right dose of Icatibant Injection for you and tell you when to use it.
- Your healthcare provider will teach you or a caregiver how to give Icatibant Injection.
- If your symptoms continue or come back, you may repeat your Icatibant Injection at least six hours apart.
- Do not use more than 3 doses in 24 hours.
- **If you have a laryngeal attack**, inject Icatibant Injection and then go to the nearest hospital emergency room right away.

What should I avoid while using Icatibant Injection?

Tiredness, drowsiness, and dizziness can happen in people who take icatibant. If this happens, do not drive a car, use machinery, or do anything that needs you to be alert.

What are the possible side effects of Icatibant Injection?

The most common side effects of Icatibant Injection include:

- redness, bruising, swelling, warmth, burning, itching, irritation, hives, numbness, pressure, or pain at the injection site

- fever
- too much of an enzyme called transaminase in your blood
- dizziness
- nausea
- headache
- rash

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

These are not all of the possible side effects of Icatibant Injection. For more information, ask your healthcare provider or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store Icatibant Injection?

- Store Icatibant Injection between 36°F to 77°F (2°C to 25°C).
- Do not freeze.
- Store Icatibant Injection in the original carton until you are ready to use it.

Keep Icatibant Injection and all medicines out of the reach of children.

General information about the safe and effective use of Icatibant Injection

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use icatibant for a condition for which it was not prescribed. Do not give icatibant to other people, even if they have the same symptoms that you have. It may harm them.

This Patient Information leaflet summarizes the most important information about Icatibant Injection. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about Icatibant Injection that is written for health professionals.

For more information call Teva at 1-888-838-2872.

What are the ingredients in Icatibant Injection?

Active ingredient: icatibant acetate

Inactive Ingredients: sodium chloride (isotonicity reagent), glacial acetic acid (pH adjuster), sodium hydroxide (pH adjuster), and water

INSTRUCTIONS FOR USE
Icatibant (eye ka' ti bant) Injection, for subcutaneous use

Step 1. Preparing your dose of Icatibant Injection

- Wash your hands with soap and water.
- You will need the following supplies:
 - Your Icatibant Injection carton that includes 1 single-dose Icatibant Injection prefilled syringe and 1 needle.
 - 1 alcohol wipe
 - The medicine inside your Icatibant Injection prefilled syringe should be clear and colorless. Do not use your Icatibant Injection prefilled syringe if the solution contains particles, is cloudy, or has an unusual color.

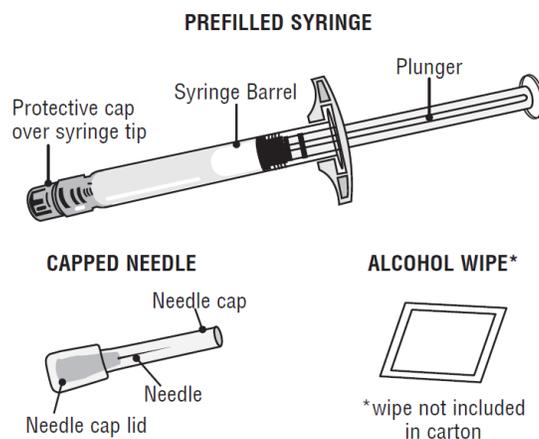


Figure A

Step 2. Remove the prefilled syringe and needle from the carton. See Figure B.

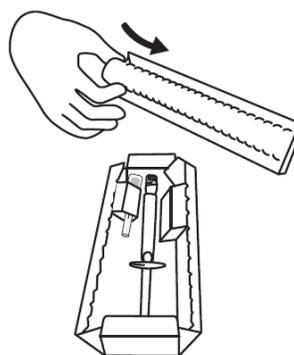


Figure B

Step 3. Twist the needle cap lid to break the seal (the needle should remain inside the protective needle cap until ready to use). See **Figure C**.



Figure C

Step 4. Remove the protective cap from the end of the pre-filled syringe by unscrewing the cap. Hold the syringe firmly. Carefully attach the needle to the prefilled syringe containing the colorless icatibant solution. See **Figure D**.

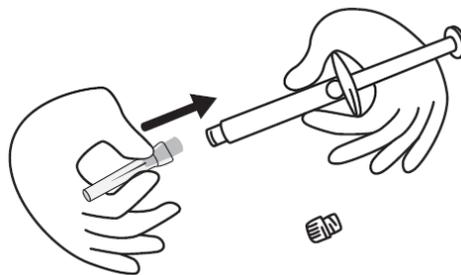


Figure D

Step 5. Firmly screw the needle on the prefilled syringe. Be careful not to remove the needle from the needle cap. See **Figure E**.

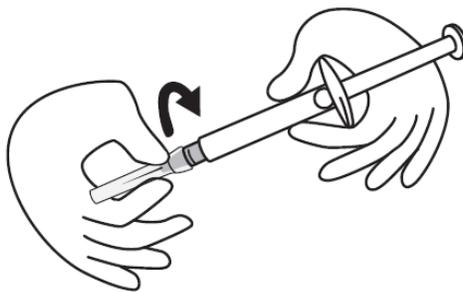


Figure E

Preparing the Injection Site

Step 6. Choose the injection site. The injection site should be a fold of skin on your stomach, about 2 to 4 inches (5 to 10 cm) below your belly button on either side. See **Figure F**.

The area you choose for injection should be at least 2 inches (5 cm) away from any scars. Do not choose an area that is bruised, swollen, or painful.

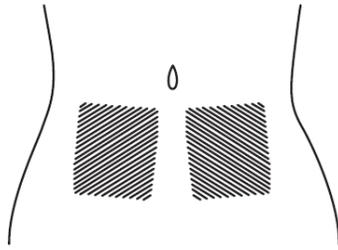


Figure F

Step 7. Clean your Icatibant Injection site with an alcohol wipe and allow it to dry. See Figure G.

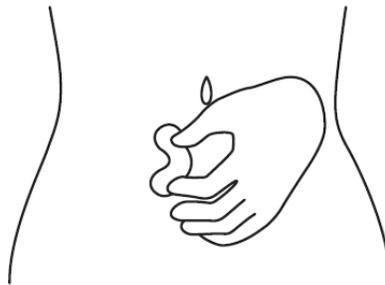


Figure G

Injecting your Icatibant Injection

Step 8. Remove the needle from the needle cap by holding the needle cap and carefully pulling the syringe. Do not pull up on the plunger. See Figure H.

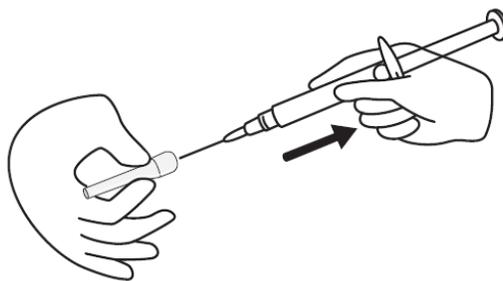


Figure H

Step 9. Hold the Icatibant Injection prefilled syringe in 1 hand, between your fingers and thumb. See Figure I.

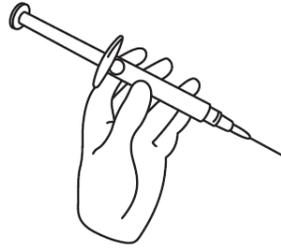


Figure I

Step 10. Use your other hand to gently pinch the fold of skin you cleaned with the alcohol wipe between your thumb and fingers for your injection. See Figure J.

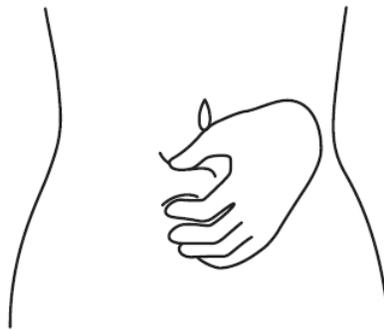


Figure J

Step 11. Hold the syringe between a 45 to 90 degree angle to your skin with the needle facing the fold of skin you are holding. See Figure K.

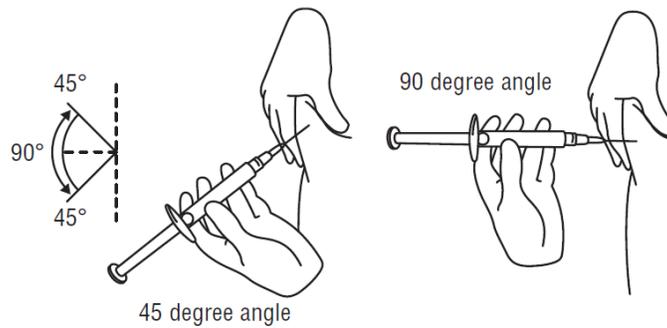


Figure K

Step 12. Hold the fold of skin. Bring the syringe to the skin and quickly insert the needle into the skin fold. See Figure L.

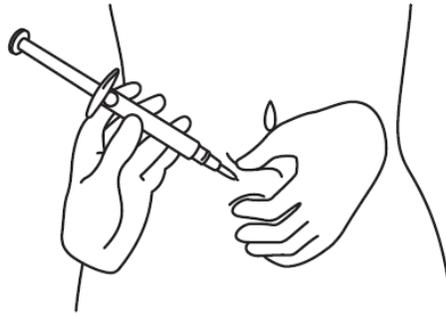


Figure L

Step 13. Push the plunger, at the top of the syringe, for at least 30 seconds until no icaltibat is in the syringe. See Figure M.

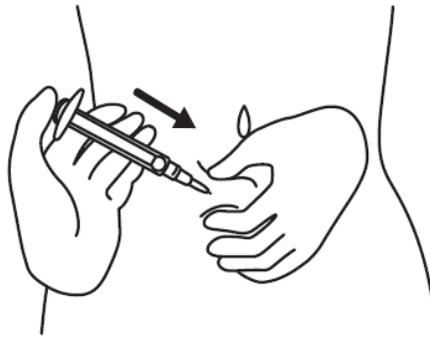


Figure M

Step 14. Release the skin fold and gently pull the needle out. See Figure N.

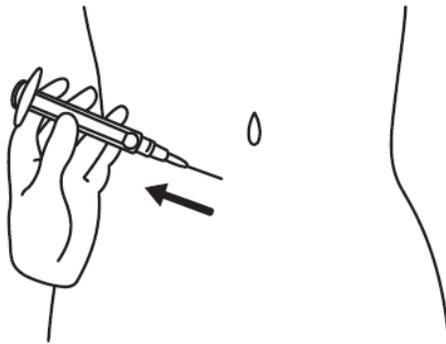


Figure N

Disposal of your used Icatibant Injection prefilled syringe

Step 15. Place your used Icatibant Injection syringe, with the needle attached, in an FDA-cleared sharps disposal container right away after use. Do not throw away (dispose of) loose needles and syringes in your household trash.

If you do not have an FDA-cleared sharps disposal container, you may use a household container that is:

- made of a heavy-duty plastic,
- can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,
- upright and stable during use,
- leak-resistant, and
- properly labeled to warn of hazardous waste inside the container.

When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used needles and syringes. For more information about safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to the FDA's website at:

<http://www.fda.gov/safesharpsdisposal>.

Do not dispose of your sharps disposal container in your household trash unless your community guidelines permit this. **Do not** recycle your used sharps disposal container.



Figure O

This Patient Information and Instructions for Use have been approved by the U.S. Food and Drug Administration.

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