HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use SYMJEPI™ safely and effectively. See full prescribing information for SYMJEPI™.

SYMJEPI™ (epinephrine) injection, for intramuscular or subcutaneous use
Initial U.S. Approval: 1939

--------INDICATIONS AND USAGE--------
SYMJEPI contains epinephrine, a non-selective alpha and beta-adrenergic receptor agonist, indicated in the emergency treatment of allergic reactions (Type I) including anaphylaxis. (1)

--------DOSAGE AND ADMINISTRATION--------
Patients greater than or equal to 30 kg (66 lbs): Inject SYMJEPI intramuscularly or subcutaneously into the anterolateral aspect of the thigh, through clothing if necessary. Each pre-filled syringe is for a single injection. (2)

--------DOSAGE FORMS AND STRENGTHS--------
Injection: single-dose, pre-filled syringe for manual injection containing 0.3 mg/0.3 mL epinephrine sterile solution for injection, USP (3)

--------CONTRAINDICATIONS--------
None. (4)

--------WARNINGS AND PRECAUTIONS--------
• In conjunction with use, seek immediate medical or hospital care.(5.1)
• Do not inject intravenously, into buttock, or into digits, hands or feet. (5.2)
• To minimize the risk of injection-related injury, instruct caregivers to hold the child’s leg firmly in place and limit movement prior to and during injection when administering to young children. (5.2)

• Rare cases of serious skin and soft tissue infections have been reported following epinephrine injection. Advise patients to seek medical care if they develop signs or symptoms of infection at the epinephrine injection site. (5.3)
• The presence of a sulfite in this product should not deter use. (5.4)
• Administer with caution in patients with heart disease; may aggravate angina pectoris or produce ventricular arrhythmias. (5.5)

--------ADVERSE REACTIONS--------
Adverse reactions to epinephrine include anxiety, apprehensiveness, restlessness, tremor, weakness, dizziness, sweating, palpitations, pallor, nausea and vomiting, headache, and/or respiratory difficulties. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Adamis Pharmaceuticals Corporation at 1-858-997-2400 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

--------DRUG INTERACTIONS--------
• Cardiac glycosides or diuretics: observe for development of cardiac arrhythmias. (7)
• Tricyclic antidepressants, monoamine oxidase inhibitors, levothyroxine sodium, and certain antihistamines: potentiate effects of epinephrine. (7)
• Beta-adrenergic blocking drugs: antagonize cardiostimulating and bronchodilating effects of epinephrine. (7)
• Alpha-adrenergic blocking drugs: antagonize vasoconstricting and hypertensive effects of epinephrine. (7)
• Ergot alkaloids: may reverse the pressor effects of epinephrine. (7)

--------USE IN SPECIFIC POPULATIONS--------
Elderly patients may be at greater risk of developing adverse reactions. (5.5, 8.5)

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

Revised 06/2017

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE
SYMJEPI is indicated in the emergency treatment of allergic reactions (Type I) including anaphylaxis to stinging insects (e.g., order Hymenoptera, which include bees, wasps, hornets, yellow jackets and fire ants) and biting insects (e.g., triatoma, mosquitoes), allergen immunotherapy, foods, drugs, diagnostic testing substances (e.g., radiocontrast media) and other allergens, as well as idiopathic anaphylaxis or exercise-induced anaphylaxis.

SYMJEPI is intended for immediate administration in patients who are determined to be at increased risk for anaphylaxis, including individuals with a history of anaphylactic reactions.

Anaphylactic reactions may occur within minutes after exposure and consist of flushing, apprehension, syncope, tachycardia, thready or unobtainable pulse associated with a fall in blood pressure, convulsions, vomiting, diarrhea and abdominal cramps, involuntary voiding, wheezing, dyspnea due to laryngeal spasm, pruritus, rashes, urticaria or angioedema.

SYMJEPI is intended for immediate administration as emergency supportive therapy only and is not a substitute for immediate medical care.

2 DOSAGE AND ADMINISTRATION
This product delivers 0.3 mg epinephrine injection (0.3 mL) and is intended for patients who weigh 30 kg or more (approximately 66 pounds or more).

Inject SYMJEPI intramuscularly or subcutaneously into the anterolateral aspect of the thigh with the needle facing downwards. It can be injected through clothing if necessary. Instruct caregivers of young children who are prescribed SYMJEPI and who may be uncooperative and kick or move during an injection to hold the leg firmly in place and limit movement prior to and during an injection [see Warnings and Precautions (5.2)].

Each SYMJEPI contains a single dose of epinephrine for single-use injection. Since the doses of Epinephrine delivered from SYMJEPI are fixed, consider using other forms of injectable epinephrine if doses lower than 0.3 mg are deemed necessary.

The prescriber should carefully assess each patient to determine the most appropriate dose of epinephrine, recognizing the life-threatening nature of the reactions for which this drug is indicated. With severe persistent anaphylaxis, repeat injections with an additional SYMJEPI may be necessary. More than two sequential doses of epinephrine should only be administered under direct medical supervision [see Warnings and Precautions (5.1)].

SYMJEPI prescribers should ensure that the patient or caregiver is instructed and understands the indications and use of this product. A health care provider should review the patient instructions for SYMJEPI, in detail, with the patient or caregiver. Patients and/or any other person who might be in a position to administer an epinephrine injection should be advised of the proper site for injection and given appropriate instructions about imbedding the needle before transferring the thumb to the syringe plunger [see Instructions for Use].

The epinephrine solution in the syringe should be inspected visually for particulate matter and discoloration. Epinephrine is light sensitive and should be stored in the outer case provided to protect it from light [see How Supplied/Storage and Handling (16.2)].

3 DOSAGE FORMS AND STRENGTHS
Injection: Single-dose pre-filled syringe for manual injection, containing 0.3 mg/0.3 mL epinephrine sterile solution for injection, USP

4 CONTRAINDICATIONS
None.
5 WARNINGS AND PRECAUTIONS

5.1 Emergency Treatment
SYMJEPI is intended for immediate administration as emergency supportive therapy and is not intended as a substitute for immediate medical care. In conjunction with the administration of epinephrine, the patient should seek immediate medical or hospital care. More than two sequential doses of epinephrine should only be administered under direct medical supervision [see Indications and Usage (1), Dosage and Administration (2) and Patient Counseling Information (17.1)].

5.2 Injection-related Complications
SYMJEPI should only be injected into the anterolateral aspect of the thigh [see Dosage and Administration (2) and Patient Counseling Information (17)].

• Do not inject intravenously. Large doses or accidental intravenous injection of epinephrine may result in cerebral hemorrhage due to sharp rise in blood pressure. Rapidly acting vasodilators can counteract the marked pressor effects of epinephrine if there is such inadvertent administration.

• Do not inject into buttock. Injection into the buttock may not provide effective treatment of anaphylaxis. Advise the patient to go immediately to the nearest emergency room for further treatment of anaphylaxis. Additionally, injection into the buttock has been associated with gas gangrene. Cleansing with alcohol does not kill bacterial spores and therefore, does not lower the risk.

• Do not inject into digits, hands or feet. Since epinephrine is a strong vasoconstrictor, accidental injection into the digits, hands or feet may result in loss of blood flow to the affected area. Advise the patient to go immediately to the nearest emergency room and to inform the healthcare provider in the emergency room of the location of the accidental injection. Treatment of such inadvertent administration should consist of vasodilation, in addition to further appropriate treatment of anaphylaxis [see Adverse Reactions (6)].

• Hold leg firmly during injection. To minimize the risk of injection related injury when administering SYMJEPI to young children, instruct caregivers to hold child's leg firmly in place and limit movement prior to and during injection.

5.3 Serious Infections at the Injection Site
Rare cases of serious skin and soft tissue infections, including necrotizing fasciitis and myonecrosis caused by Clostridia (gas gangrene), have been reported at the injection site following epinephrine injection for anaphylaxis. Clostridium spores can be present on the skin and introduced into the deep tissue with subcutaneous or intramuscular injection. While cleansing with alcohol may reduce presence of bacteria on the skin, alcohol cleansing does not kill Clostridium spores. To decrease the risk of Clostridium infection, do not inject SYMJEPI into the buttock [see Warnings and Precautions (5.2)]. Advise patients to seek medical care if they develop signs or symptoms of infection, such as persistent redness, warmth, swelling, or tenderness, at the epinephrine injection site.

5.4 Allergic Reactions Associated with Sulfite
The presence of a sulfite in this product should not deter administration of the drug for the treatment of serious allergic or other emergency situations even if the patient is sulfite-sensitive.
Epinephrine is the preferred treatment for serious allergic reactions or other emergency situations even though this product contains sodium metabisulfite, a sulfite that may, in other products, cause allergic-type reactions including anaphylactic symptoms or life threatening or less severe asthmatic episodes in certain susceptible persons.
The alternatives to using epinephrine in a life-threatening situation may not be satisfactory.

5.5 Disease Interactions
Some patients may be at greater risk for developing adverse reactions after epinephrine administration. Despite these concerns, it should be recognized that the presence of these conditions is not a contraindication to epinephrine administration in an acute, life-threatening situation.
Therefore, patients with these conditions, and/or any other person who might be in a position to administer SYMJEPI to a patient experiencing anaphylaxis should be carefully instructed in regard to the circumstances under which epinephrine should be used.

- **Patients with Heart Disease:** Epinephrine should be administered with caution to patients who have heart disease, including patients with cardiac arrhythmias, coronary artery or organic heart disease, or hypertension. In such patients, or in patients who are on drugs that may sensitize the heart to arrhythmias, epinephrine may precipitate or aggravate angina pectoris as well as produce ventricular arrhythmias [see Drug Interactions (7) and Adverse Reactions (6)].

- **Other Patients and Diseases:** Epinephrine should be administered with caution to patients with hyperthyroidism, diabetes, elderly individuals, and pregnant women. Patients with Parkinson's disease may notice a temporary worsening of symptoms.

### 6 ADVERSE REACTIONS

Due to the lack of randomized, controlled clinical trials of epinephrine for the treatment of anaphylaxis, the true incidence of adverse reactions associated with the systemic use of epinephrine is difficult to determine. Adverse reactions reported in observational trials, case reports and studies are listed below. Common adverse reactions to systemically administered epinephrine include: anxiety; apprehensiveness; restlessness; tremor; weakness; dizziness; sweating; palpitations; pallor; nausea and vomiting; headache; and/or respiratory difficulties. These symptoms occur in some persons receiving therapeutic doses of epinephrine, but are more likely to occur in patients with hypertension or hyperthyroidism [see Warnings and Precautions (5.5)].

Arrhythmias, including fatal ventricular fibrillation, have been reported, particularly in patients with underlying cardiac disease or those receiving certain drugs [see Warnings and Precautions (5.5) and Drug Interactions (7)].

Rapid rises in blood pressure have produced cerebral hemorrhage, particularly in elderly patients with cardiovascular disease [see Warnings and Precautions (5.5)].

Angina may occur in patients with coronary artery disease [see Warnings and Precautions (5.5)].

Rare cases of stress cardiomyopathy have been reported in patients treated with epinephrine.

Accidental injection into the digits, hands or feet may result in loss of blood flow to the affected area [see Warnings and Precautions (5.2)].

Adverse events experienced as a result of accidental injections may include increased heart rate, local reactions including injection site pallor, coldness and hyposthesia or injury at the injection site resulting in bruising, bleeding, discoloration, erythema or skeletal injury.

Injection into the buttck has resulted in cases of gas gangrene [see Warnings and Precautions (5.2)].

Rare cases of serious skin and soft tissue infections, including necrotizing fasciitis and myonecrosis caused by Clostridia (gas gangrene), have been reported at the injection site following epinephrine injection in the thigh [see Warnings and Precautions (5.2)].

### 7 DRUG INTERACTIONS

Patients who receive epinephrine while concomitantly taking cardiac glycosides, diuretics, or anti-arrhythmics should be observed carefully for the development of cardiac arrhythmias [see Warnings and Precautions (5.4)].

The effects of epinephrine may be potentiated by tricyclic antidepressants, monoamine oxidase inhibitors, levothyroxine sodium, and certain antihistamines, notably chlorpheniramine, tripelennamine, and diphenhydramine.

The cardiostimulating and bronchodilating effects of epinephrine are antagonized by beta-adrenergic blocking drugs, such as propranolol.

The vasoconstricting and hypertensive effects of epinephrine are antagonized by alpha-adrenergic blocking drugs, such as phentolamine.
Ergot alkaloids may also reverse the pressor effects of epinephrine.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no adequate and well controlled studies of the acute effect of epinephrine in pregnant women. In animal reproductive studies, epinephrine administered by the subcutaneous route to rabbits, mice, and hamsters during the period of organogenesis was teratogenic at doses 7 times and higher than the maximum recommended human intramuscular and subcutaneous dose on a mg/m² basis. Epinephrine is the first-line medication of choice for the treatment of anaphylaxis during pregnancy in humans. Epinephrine should be used for treatment of anaphylaxis during pregnancy in the same manner as it is used in non-pregnant patients.

In the U.S. general population, the estimated background risks of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and of miscarriage is 15-20%, respectively.

Clinical Considerations

Disease-associated maternal and embryo/fetal risk:

During pregnancy, anaphylaxis can be catastrophic and can lead to hypoxic-ischemic encephalopathy and permanent central nervous system damage or death in the mother and, more commonly, in the fetus or neonate. The prevalence of anaphylaxis occurring during pregnancy is reported to be approximately 3 cases per 100,000 deliveries.

Management of anaphylaxis during pregnancy is similar to management in the general population. Epinephrine is the first line-medication of choice for treatment of anaphylaxis; it should be used in the same manner in pregnant and non-pregnant patients. In conjunction with the administration of epinephrine, the patient should seek immediate medical or hospital care.

Data

Animal Data

In an embryofetal development study with rabbits dosed during the period of organogenesis, epinephrine was shown to be teratogenic (including gastrochisis and embryonic lethality) at doses approximately 40 times the maximum recommended intramuscular or subcutaneous dose (on a mg/m² basis at a maternal subcutaneous dose of 1.2 mg/kg/day for two to three days).

In an embryofetal development study with mice dosed during the period of organogenesis, epinephrine was shown to be teratogenic (including embryonic lethality) at doses approximately 8 times the maximum recommended intramuscular or subcutaneous dose (on a mg/m² basis at maternal subcutaneous dose of 1 mg/kg/day for 10 days). These effects were not seen in mice at approximately 4 times the maximum recommended daily intramuscular or subcutaneous dose (on a mg/m² basis at a subcutaneous maternal dose of 0.5 mg/kg/day for 10 days).

In an embryofetal development study with hamsters dosed during the period of organogenesis from gestation days 7 to 10, epinephrine was shown to be teratogenic at doses approximately 7 times the maximum recommended intramuscular or subcutaneous dose (on a mg/m² basis at a maternal subcutaneous dose of 0.5 mg/kg/day).

8.2 Lactation

Risk Summary

There is no information regarding the presence of epinephrine in human milk, the effects on breastfed infants, or the effects on milk production. Epinephrine is the first line-medication of choice for treatment of anaphylaxis; it should be used in the same manner in breastfeeding and non-breastfeeding patients.

Reference ID: 4112193
8.4 Pediatric Use
SYMJEPI may be given safely to pediatric patients at a dosage appropriate to body weight [see Dosage and Administration (2)]. Clinical experience with the use of epinephrine suggests that the adverse reactions seen in children are similar in nature and extent to those both expected and reported in adults. Since the dose of epinephrine delivered from SYMJEPI is fixed, consider using other forms of injectable epinephrine if a dose lower than 0.3mg is deemed necessary.

8.5 Geriatric Use
Clinical studies for the treatment of anaphylaxis have not been performed in subjects aged 65 and over to determine whether they respond differently from younger subjects. However, other reported clinical experience with use of epinephrine for the treatment of anaphylaxis has identified that geriatric patients may be particularly sensitive to the effects of epinephrine. Therefore, SYMJEPI should be administered with caution in elderly individuals, who may be at greater risk for developing adverse reactions after epinephrine administration. [see Warnings and Precautions (5.4), Overdosage (10)].

10 OVERDOSAGE
Overdosage of epinephrine may produce extremely elevated arterial pressure, which may result in cerebrovascular hemorrhage, particularly in elderly patients. Overdosage may also result in pulmonary edema because of peripheral vascular constriction together with cardiac stimulation. Treatment consists of rapidly acting vasodilators or alpha-adrenergic blocking drugs and/or respiratory support.

Epinephrine overdosage can also cause transient bradycardia followed by tachycardia, and these may be accompanied by potentially fatal cardiac arrhythmias. Premature ventricular contractions may appear within one minute after injection and may be followed by multifocal ventricular tachycardia (prefibrillation rhythm). Subsidence of the ventricular effects may be followed by atrial tachycardia and occasionally by atrioventricular block. Treatment of arrhythmias consists of administration of a beta-adrenergic blocking drug such as propranolol.

Overdosage sometimes results in extreme pallor and coldness of the skin, metabolic acidosis, and kidney failure. Suitable corrective measures must be taken in such situations.

11 DESCRIPTION
Each SYMJEPI pre-filled, syringe delivers a single dose of 0.3 mg of epinephrine from epinephrine injection, USP (0.3mg/0.3 mL).

Each SYMJEPI (epinephrine injection, USP) syringe contains 0.8 mL of sterile aqueous solution of epinephrine for intramuscular or subcutaneous administration. The syringe is overfilled for stability purposes; more than half of the solution remains in the syringe after use and CANNOT BE REUSED.

Each 0.3 mL contains 0.3 mg epinephrine, 1.8 mg sodium chloride, 0.5 mg sodium metabisulfite, hydrochloric acid to adjust pH, and Water for Injection. The pH range is 2.2-5.0.

Epinephrine is a sympathomimetic catecholamine (a non-selective alpha and beta-adrenergic receptor agonist) designated chemically as (-)-3,4-Dihydroxy-α-[(methylamino)methyl]benzyl alcohol and has the following structure:

\[
\text{HO} \quad \begin{array}{c}
\text{OH} \\
\text{HO} \\
\text{CH}_2\text{NHCH}_3
\end{array}
\]

The molecular weight of epinephrine is 183.20.

Epinephrine solution deteriorates rapidly on exposure to air or light, turning pink from oxidation to adrenochrome and brown from formation of melanin. Replace SYMJEPI if the solution appears discolored (pinkish or brown color), cloudy, or contains particles.

Reference ID: 4112193
12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
Epinephrine acts on both alpha and beta-adrenergic receptors.

12.2 Pharmacodynamics
Through its action on alpha-adrenergic receptors, epinephrine lessens the vasodilation and increased vascular permeability that occurs during anaphylaxis, which can lead to loss of intravascular fluid volume and hypotension.

Through its action on beta-adrenergic receptors, epinephrine causes bronchial smooth muscle relaxation and helps alleviate bronchospasm, wheezing and dyspnea that may occur during anaphylaxis.

Epinephrine also alleviates pruritus, urticaria, and angioedema and may relieve gastrointestinal and genitourinary symptoms associated with anaphylaxis because of its relaxer effects on the smooth muscle of the stomach, intestine, uterus and urinary bladder.

When given subcutaneously or intramuscularly, epinephrine has a rapid onset and short duration of action.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
Long-term studies to evaluate the carcinogenic potential of epinephrine have not been conducted.

Epinephrine and other catecholamines have been shown to have mutagenic potential in vitro. Epinephrine was positive in the Salmonella bacterial reverse mutation assay, positive in the mouse lymphoma assay, and negative in the in vivo micronucleus assay. Epinephrine is an oxidative mutagen based on the E. coli WP2 Mutotest bacterial reverse mutation assay. This should not prevent the use of epinephrine under the conditions noted under Indications and Usage (1).

The potential for epinephrine to impair reproductive performance has not been evaluated, but epinephrine has been shown to decrease implantation in female rabbits dosed subcutaneously with 1.2 mg/kg/day (40-fold the highest human intramuscular or subcutaneous daily dose) during gestation days 3 to 9.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied
SYMJEPI (epinephrine injection, USP) 0.3 mg pre-filled syringes are available as a single pack, NDC 38739-200-01 containing a single pre-filled syringe, and as a two-pack, NDC 38739-200-02, a pack that contains 2 pre-filled syringes.

16.2 Storage and Handling
Protect from light. Epinephrine is light sensitive and should be stored in the case provided to protect it from light. Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) (see USP Controlled Room Temperature). Do not refrigerate. Before using, check to make sure the solution in the syringe is clear and colorless. Replace the product if the solution is discolored (pinkish or brown color), cloudy, or contains particles. Used SYMJEPI should be given to a healthcare provider or emergency room personnel for proper disposal. Expired or discolored SYMJEPI should be returned to a healthcare provider or pharmacy for proper disposal.

17 PATIENT COUNSELING INFORMATION

[see FDA-Approved Patient Labeling (Patient Information and Instructions for Use)]

A healthcare provider should review the patient instructions and operation of SYMJEPI, in detail, with the patient or caregiver.

Epinephrine is essential for the treatment of anaphylaxis. Patients who are at risk of or have a history of severe allergic reactions (anaphylaxis) to insect stings or bites, foods, drugs, and other allergens,
as well as idiopathic and exercise-induced anaphylaxis, should be carefully instructed about the circumstances under which epinephrine should be used.

**Administration and Training**

Instruct patients and/or caregivers in the appropriate use of SYMJEPI. SYMJEPI should be injected into the middle of the outer thigh (through clothing, if necessary). Each syringe is for a single-use injection. Advise patients to seek immediate medical care in conjunction with administration of SYMJEPI.

Young children may be uncooperative and kick or move during and injection. Instruct caregivers of young children who are prescribed SYMJEPI to hold the leg firmly in place and limit movement prior to and during an injection [see Warnings and Precautions (5.2)].

Complete patient information, including dosage, directions for proper administration and precautions can be found inside each SYMJEPI carton. A printed label on the surface of the SYMJEPI case shows instructions for use.

**Adverse Reactions**

Epinephrine may produce symptoms and signs that include an increase in heart rate, the sensation of a more forceful heartbeat, palpitations, sweating, nausea and vomiting, difficulty breathing, pallor, dizziness, weakness or shakiness, headache, apprehension, nervousness, or anxiety. These signs and symptoms usually subside rapidly, especially with rest, quiet and recumbency. Patients with hypertension or hyperthyroidism may develop more severe or persistent effects, and patients with coronary artery disease could experience angina. Patients with diabetes may develop increased blood glucose levels following epinephrine administration. Patients with Parkinson’s disease may notice a temporary worsening of symptoms. [see Warnings and Precautions (5.4)].

**Accidental Injection**

Advise patients to seek immediate medical care in the case of accidental injection. Since epinephrine is a strong vasoconstrictor when injected into the digits, hands, or feet, treatment should be directed at vasodilatation if there is such an accidental injection to these areas [see Warnings and Precautions (5.2)].

**Serious Infections at the Injection Site**

Rare cases of serious skin and soft tissue infections, including necrotizing fasciitis and myonecrosis caused by Clostridia (gas gangrene), have been reported at the injection site following epinephrine injection for anaphylaxis. Advise patients to seek medical care if they develop signs or symptoms of infection, such as persistent redness, warmth, swelling, or tenderness, at the epinephrine injection site [see Warnings and Precautions (5.3)].

**Storage and Handling**

Instruct patients to inspect the epinephrine solution visually periodically. SYMJEPI should be replaced if the epinephrine solution appears discolored (pinkish or brown color), cloudy, or contains particles. Epinephrine is light sensitive and should be stored in the outer case provided to protect it from light. Instruct patients that SYMJEPI must be used or properly disposed once the protective cap covering the needle is removed [see How Supplied/Storage and Handling (16.2)]. Instruct patients to give a used SYMJEPI syringe to their healthcare provider or emergency room personnel for proper disposal, and to return expired or discolored SYMJEPI to their healthcare provider or pharmacy for proper disposal.

Complete patient information, including dosage, directions for proper administration and precautions can be found inside each SYMJEPI case.

Manufactured for Adamis Pharmaceuticals Corporation. San Diego, CA
PATIENT INFORMATION
SYMJEPI™ (sim-JEP-ee)
(epinephrine)
injection, for intramuscular or subcutaneous use
For allergic emergencies (anaphylaxis)

Read this Patient Information leaflet carefully before using SYMJEPI and each time you get a refill. There may be new information. You, your parent, caregiver, or others who may be in a position to administer SYMJEPI should know how to use it before you have an allergic emergency. This information does not take the place of talking with your healthcare provider about your medical condition or your treatment.

What is the most important information I should know about SYMJEPI?
1. SYMJEPI contains epinephrine, a medicine used to treat allergic emergencies (anaphylaxis). Anaphylaxis can be life threatening, can happen within minutes, and can be caused by stinging and biting insects, allergy injections, foods, medicines, exercise, or unknown causes.
   Symptoms of anaphylaxis may include:
   - trouble breathing
   - wheezing
   - hoarseness (changes in the way your voice sounds)
   - hives (raised reddened rash that may itch)
   - severe itching
   - swelling of your face, lips, mouth, or tongue
   - skin rash, redness, or swelling
   - fast heartbeat
   - weak pulse
   - feeling very anxious
   - confusion
   - stomach pain
   - losing control of urine or bowel movements (incontinence)
   - diarrhea or stomach cramps
   - dizziness, fainting, or "passing out" (unconsciousness)

2. Always carry your SYMJEPI with you because you may not know when anaphylaxis may happen.
   Talk to your healthcare provider if you need additional prefilled syringes to keep at work, school, or other locations. Tell your family members, caregivers, and others where you keep your SYMJEPI and how to use it before you need it. You may be unable to speak in an allergic emergency.

3. When you have an allergic emergency (anaphylaxis)
   - Use SYMJEPI right away.
   - Get emergency medical help right away. You may need further medical attention. You may need to use a second SYMJEPI if symptoms continue or recur. Only a healthcare provider should give additional doses of epinephrine if you need more than 2 injections for a single anaphylaxis episode.

What is SYMJEPI?
- SYMJEPI is a disposable, prefilled syringe used to treat life-threatening, allergic emergencies including anaphylaxis in people who are at risk for or have a history of serious allergic emergencies. Each prefilled syringe contains a single (1 time) dose of epinephrine.
- SYMJEPI is for immediate self (or caregiver) administration and does not take the place of emergency medical care. You should get emergency help right away after using SYMJEPI.
- SYMJEPI is for people who have been prescribed this medicine by their healthcare provider.
- The SYMJEPI prefilled syringe (0.3 mg) is for patients who weigh 66 pounds or more (30 kilograms or more).
- It is not known if the SYMJEPI prefilled syringe (0.3 mg) is safe and effective in patients who weigh less than 66 pounds (30 kilograms).

Before using SYMJEPI, tell your healthcare provider about all of your medical conditions, including if you:
- have heart problems or high blood pressure.
- have diabetes.
- have thyroid problems.
- have asthma.
- have a history of depression.
- have Parkinson's disease.
- are pregnant or plan to become pregnant. It is not known if epinephrine will harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if epinephrine passes into your breast milk.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Tell your healthcare provider of all known allergies. Especially tell your healthcare provider if you take certain asthma medicines. SYMJEPI and other medicines may affect each other, causing side effects. SYMJEPI may affect the way other medicines work, and other medicines may affect how SYMJEPI works.

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

Use your SYMJEPI for treatment of anaphylaxis as prescribed by your healthcare provider, regardless of your medical conditions or the medicines you take.
How should I use SYMJEPI?
- Each SYMJEPI prefilled syringe contains only 1 dose of medicine.
- SYMJEPI should be injected into the middle of your outer thigh (upper leg) with the needle facing downwards. It can be injected through your clothing if needed.
- Read the Instructions for Use at the end of this Patient Information leaflet about the right way to use SYMJEPI.
- Your healthcare provider will show you how to safely use the SYMJEPI prefilled syringe.
- Use SYMJEPI exactly as your healthcare provider tells you to use it.
- If you inject a young child with SYMJEPI, hold their leg firmly in place before and during the injection to prevent injuries. Ask your healthcare provider to show you how to properly hold the leg of a young child during injection.
- You may need to use a second SYMJEPI if symptoms continue or recur. Only a healthcare provider should give additional doses of epinephrine if you need more than 2 injections for a single anaphylaxis episode.
- Caution: Never put your thumb, fingers, or hand over the exposed needle. Accidental injection of epinephrine into the finger, hands or feet may cause a loss of blood flow to these areas. If this happens, go immediately to the nearest emergency room. Tell the healthcare provider where on your body you received the accidental injection.
- Always carry your SYMJEPI with you in case of an allergic emergency. Additional instructional materials and information are available at www.symjepi.com.
- Do not drop the carrier case or SYMJEPI prefilled syringe. If the carrier case or prefilled syringe is dropped, check for damage and leakage. Dispose of the prefilled syringe and carrier case, and replace if damage or leakage is noticed or suspected.

What are the possible side effects of SYMJEPI?
SYMJEPI may cause serious side effects.
- SYMJEPI should only be injected into the middle of your outer thigh (upper leg). Do not inject SYMJEPI into your:
  - veins
  - buttocks
  - fingers, toes, hands or feet
  If you accidentally inject SYMJEPI into any other part of your body, go to the nearest emergency room right away. Tell the healthcare provider where on your body you received the accidental injection.
- Rarely, patients who have used SYMJEPI may develop infections at the injection site within a few days of an injection. Some of these infections can be serious. Call your healthcare provider right away if you have any of the following at an injection site:
  - redness that does not go away
  - swelling
  - tenderness
  - the area feels warm to the touch
- Cuts on the skin, bent needles, and needles that remain in the skin after the injection, have happened in young children who do not cooperate and kick or move during an injection. If you inject a young child with SYMJEPI, hold their leg firmly in place before and during the injection to prevent injuries. Ask your healthcare provider to show you how to properly hold the leg of a young child during injection.
- If you have certain medical conditions, or take certain medicines, your condition may get worse or you may have longer lasting side effects when you use your SYMJEPI. Talk to your healthcare provider about all your medical conditions.

Common side effects of SYMJEPI include:
- fast, irregular or “pounding” heartbeat
- sweating
- headache
- weakness
- shakiness
- paleness
- feelings of over excitement, nervousness or anxiety
- dizziness
- nausea and vomiting
- breathing problems

These side effects may go away with rest. Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

These are not all the possible side effects of SYMJEPI. 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 SYMJEPI?
- Store SYMJEPI at room temperature between 68°F to 77°F (20°C to 25°C).
- Protect from light.
- Do not expose to extreme cold or heat. For example, do not store in your vehicle’s glove box and do not store in the refrigerator or freezer.
- Examine the contents in the clear window of your prefilled syringe periodically. The solution should be clear. If the solution is discolored (pinkish or brown color), is cloudy, or contains solid particles, replace the unit.
- Always keep your SYMJEPI prefilled syringe in the carrier case to protect it from damage. The carrier case is not waterproof.
- The needle cap helps to prevent accidental injection. Do not remove the needle cap until you need to use SYMJEPI.
- Your SYMJEPI has an expiration date. Replace it before the expiration date.

Keep SYMJEPI and all medicines out of the reach of children.
**General information about the safe and effective use of SYMJEPI.**

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use SYMJEPI for a condition for which it was not prescribed. Do not give your SYMJEPI to other people.

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

### What are the ingredients in SYMJEPI?

**Active Ingredients**: epinephrine

**Inactive Ingredients**: sodium chloride, sodium metabisulfite, hydrochloric acid, and water.

Manufactured for Adamis Pharmaceuticals Corporation. San Diego, CA.

SYMJEPI is a registered trademark of Adamis Pharmaceuticals Corporation.

For more information and instructions on the use of SYMJEPI, go to www.symjepi.com or call 1-858-997-2400.

### Important Information

- Your prefilled syringe is designed to work through clothing.
- The needle cap on the SYMJEPI prefilled syringe helps to prevent needle sticks and accidental injection of epinephrine. Do not remove the needle cap until you are ready to use it.
- Only inject into the middle of the outer thigh (upper leg). Never inject into any other part of the body.
- Never put your thumb, fingers, or your hand over the exposed needle.
- If an accidental injection happens, get medical help right away.
- Do not place patient information or any other foreign objects in the carrier case with the prefilled syringe, as this may prevent you from removing the prefilled syringe for use.
Get Ready to Use SYMJEPI

SYMJEPI (sim-JEP-e) (epinephrine injection, USP) 0.3 mg prefilled syringe
For Allergic Emergencies (anaphylaxis)
Read this Instructions for Use carefully before you use this product.
Before you need to use your SYMJEPI syringe, make sure your healthcare provider shows you the right way to use it. Parents, caregivers, and others who may be in a position to administer SYMJEPI should also understand how to use it. If you have questions, ask your healthcare provider.

Get Ready to Use SYMJEPI

SYMJEPI works like a standard prefilled syringe. SYMJEPI is injected downwards, into the thigh, while sitting (as shown), through clothing if necessary.

When ready to inject, pull off cap to expose needle.

Ready to Use SYMJEPI

Do not put finger on top of the device.
If you are administering SYMJEPI to a young child, hold the leg firmly in place while administering the injection. Hold SYMJEPI by finger grips only and slowly insert the needle into the thigh.

After needle is in thigh: Push the plunger all the way down until it clicks and hold for 2 seconds.

Get Help

Get emergency medical help now.
Tell healthcare provider that you received an injection of epinephrine.

Use second syringe if necessary

You may need a second SYMJEPI syringe if symptoms continue or recur.
SYMJEPI is a single use prefilled syringe that delivers a fixed dose of epinephrine. The prefilled syringe cannot be reused. It is normal for most of the medicine to remain in the syringe after the dose has been injected. The correct dose has been injected if the plunger has been pushed all the way down and the solution window is at least partially blocked.

If you will be administering SYMJEPI to a young child, ask your healthcare provider to show you how to properly hold the leg in place while administering a dose.

After use and Disposal - Hold SYMJEPI with one hand with your fingers behind the needle and slide the safety guard over the needle until it clicks. Put the used syringe into the grey case and close the case.

• Take the case with the used syringe with you when you go to see a healthcare provider.
• Tell the healthcare provider that you have received an injection of epinephrine. Show the healthcare provider where you received the injection.
• Give your used SYMJEPI syringe to your healthcare provider for inspection and proper disposal.

For more information see Patient Information sheet or ask your healthcare provider.

How to Store - Keep SYMJEPI in its plastic case nearby and ready for use at all times.
• Store at room temperature, between 68° F to 77° F (20° C to 25° C). Do not expose to extreme cold or heat. For example, do not store in your vehicle’s glove box and do not store in the refrigerator or freezer.
• Store the SYMJEPI syringe in its closed plastic case to protect from light.

Check Your SYMJEPI Periodically - The solution should be clear when viewed through the window on the device. If the solution is discolored (pinkish or brown color), cloudy or contains particles, replace the SYMJEPI with a new one.

Your SYMJEPI Has an Expiration Date - Example Dec 18 = December 31, 2018. Replace SYMJEPI before the expiration date. Dispose of expired SYMJEPI properly by taking the SYMJEPI in its case to a healthcare provider or hospital emergency room.

For more information about SYMJEPI prefilled syringe and proper use of the product, call 1-858-997-2400 or visit www.symjepi.com.

This Instructions for Use has been approved by the U.S. Food and Drug Administration.

SYMJEPI is a registered trademark of Adamis Pharmaceuticals Corporation.
Manufactured by Adamis Pharmaceuticals, San Diego, CA 92130, USA. Approved: June 2017

Rx Only