

# SUMATRIPTAN - sumatriptan injection, solution

## Eugia US LLC

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### HIGHLIGHTS OF PRESCRIBING INFORMATION

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

### SUMATRIPTAN injection, for subcutaneous use

Initial U.S. Approval: 1992

### INDICATIONS AND USAGE

Sumatriptan injection is a serotonin (5-HT<sub>1B/1D</sub>) receptor agonist (triptan) indicated for:

- Acute treatment of migraine with or without aura in adults. (1)
- Acute treatment of cluster headache in adults. (1)

#### Limitations of Use:

- Use only if a clear diagnosis of migraine or cluster headache has been established. (1)
- Not indicated for the prophylactic therapy of migraine or cluster headache attacks. (1)

### DOSAGE AND ADMINISTRATION

- For subcutaneous use only. (2.1)
- Acute treatment of migraine: single-dose of 1 to 6 mg. (2.1)
- Acute treatment of cluster headache: single-dose of 6 mg. (2.1)
- Maximum dose in a 24-hour period: 12 mg, separate doses by at least 1 hour. (2.1)
- Patients receiving doses other than 4 or 6 mg: Use the 6 mg single-dose vial. (2.3)

### DOSAGE FORMS AND STRENGTHS

- Injection: 6 mg single-dose vial. (3)

### CONTRAINDICATIONS

- History of coronary artery disease or coronary artery vasospasm (4)
- Wolff-Parkinson-White syndrome or other cardiac accessory conduction pathway disorders (4)
- History of stroke, transient ischemic attack, or hemiplegic or basilar migraine (4)
- Peripheral vascular disease (4)
- Ischemic bowel disease (4)
- Uncontrolled hypertension (4)
- Recent (within 24 hours) use of another 5-HT<sub>1</sub> agonist (e.g., another triptan) or of an ergotamine-containing medication (4)
- Concurrent or recent (past 2 weeks) use of monoamine oxidase-A inhibitor (4)
- Hypersensitivity to sumatriptan (angioedema and anaphylaxis seen) (4)
- Severe hepatic impairment (4)

### WARNINGS AND PRECAUTIONS

- Myocardial ischemia/infarction and Prinzmetal's angina: Perform cardiac evaluation in patients with multiple cardiovascular risk factors. (5.1)
- Arrhythmias: Discontinue sumatriptan injection if occurs. (5.2)
- Chest/throat/neck/jaw pain, tightness, pressure, or heaviness: Generally not associated with myocardial ischemia; evaluate for coronary artery disease in patients at high risk. (5.3)
- Cerebral hemorrhage, subarachnoid hemorrhage, and stroke: Discontinue sumatriptan injection if occurs. (5.4)
- Gastrointestinal ischemic reactions and peripheral vasospastic reactions: Discontinue sumatriptan injection if occurs. (5.5)
- Medication overuse headache: Detoxification may be necessary (5.6)
- Serotonin syndrome: Discontinue sumatriptan injection if occurs. (5.7)
- Seizures: Use with caution in patients with epilepsy or a lowered seizure threshold. (5.10)

### ADVERSE REACTIONS

Most common adverse reactions ( $\geq 5\%$  and  $>$ placebo) were injection site reactions, tingling, dizziness/vertigo, warm/hot sensation, burning sensation, feeling of heaviness, pressure sensation, flushing, feeling of tightness, and numbness. (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Eugia US LLC at 1-866-850-2876 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

----- **USE IN SPECIFIC POPULATIONS** -----

Pregnancy: Based on animal data, may cause fetal harm. (8.1)

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

**Revised: 7/2023**

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**FULL PRESCRIBING INFORMATION: CONTENTS\***

**1 INDICATIONS AND USAGE**

**2 DOSAGE AND ADMINISTRATION**

2.1 Dosing Information

2.3 Administration of Doses of Sumatriptan Injection Other than 4 or 6 mg

**3 DOSAGE FORMS AND STRENGTHS**

**4 CONTRAINDICATIONS**

**5 WARNINGS AND PRECAUTIONS**

5.1 Myocardial Ischemia, Myocardial Infarction, and Prinzmetal's Angina

5.2 Arrhythmias

5.3 Chest, Throat, Neck, and/or Jaw Pain/Tightness/Pressure

5.4 Cerebrovascular Events

5.5 Other Vasospasm Reactions

5.6 Medication Overuse Headache

5.7 Serotonin Syndrome

5.8 Increase in Blood Pressure

5.9 Hypersensitivity Reactions

5.10 Seizures

**6 ADVERSE REACTIONS**

6.1 Clinical Trials Experience

6.2 Postmarketing Experience

**7 DRUG INTERACTIONS**

7.1 Ergot-Containing Drugs

7.2 Monoamine Oxidase-A Inhibitors

7.3 Other 5-HT<sub>1</sub> Agonists

7.4 Selective Serotonin Reuptake Inhibitors/Serotonin Norepinephrine Reuptake Inhibitors and Serotonin Syndrome

**8 USE IN SPECIFIC POPULATIONS**

8.1 Pregnancy

8.2 Lactation

8.4 Pediatric Use

8.5 Geriatric Use

**10 OVERDOSAGE**

**11 DESCRIPTION**

**12 CLINICAL PHARMACOLOGY**

12.1 Mechanism of Action

12.2 Pharmacodynamics

12.3 Pharmacokinetics

### **13 NONCLINICAL TOXICOLOGY**

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

13.2 Animal Toxicology and/or Pharmacology

### **14 CLINICAL STUDIES**

14.1 Migraine

14.2 Cluster Headache

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

### **17 PATIENT COUNSELING INFORMATION**

\* Sections or subsections omitted from the full prescribing information are not listed.

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

Sumatriptan injection is indicated in adults for (1) the acute treatment of migraine, with or without aura, and (2) the acute treatment of cluster headache.

#### Limitations of Use:

- Use only if a clear diagnosis of migraine or cluster headache has been established. If a patient has no response to the first migraine or cluster headache attack treated with sumatriptan injection, reconsider the diagnosis before sumatriptan injection is administered to treat any subsequent attacks.
- Sumatriptan injection is not indicated for the prevention of migraine or cluster headache attacks.

### **2 DOSAGE AND ADMINISTRATION**

#### **2.1 Dosing Information**

The maximum single recommended adult dose of sumatriptan injection for the acute treatment of migraine or cluster headache is 6 mg injected subcutaneously. For the treatment of migraine, if side effects are dose limiting, the lower dose (1 mg to 5 mg) may be used [see *Clinical Studies (14.1)*]. For the treatment of cluster headache, the efficacy of lower doses has not been established.

The maximum cumulative dose that may be given in 24 hours is 12 mg, two 6 mg injections separated by at least 1 hour. A second 6 mg dose should only be considered if some response to a first injection was observed.

#### **2.3 Administration of Doses of Sumatriptan Injection Other than 4 or 6 mg**

In patients receiving doses other than 4 mg or 6 mg, use the 6 mg single-dose vial. Visually inspect the vial for particulate matter and discoloration before administration. Do not use if particulates and discolorations are noted.

### 3 DOSAGE FORMS AND STRENGTHS

- Injection: 6 mg single-dose vial. Each 0.5 mL injection contains 8.4 mg of sumatriptan succinate equivalent to 6 mg of sumatriptan.

### 4 CONTRAINDICATIONS

Sumatriptan injection is contraindicated in patients with:

- Ischemic coronary artery disease (CAD) (angina pectoris, history of myocardial infarction, or documented silent ischemia) or coronary artery vasospasm, including Prinzmetal's angina [see *Warnings and Precautions (5.1)*].
- Wolff-Parkinson-White syndrome or arrhythmias associated with other cardiac accessory conduction pathway disorders [see *Warnings and Precautions (5.2)*].
- History of stroke or transient ischemic attack (TIA) or history of hemiplegic or basilar migraine because these patients are at a higher risk of stroke [see *Warnings and Precautions (5.4)*].
- Peripheral vascular disease [see *Warnings and Precautions (5.5)*].
- Ischemic bowel disease [see *Warnings and Precautions (5.5)*].
- Uncontrolled hypertension [see *Warnings and Precautions (5.8)*].
- Recent use (i.e., within 24 hours) of ergotamine-containing medication, ergot-type medication (such as dihydroergotamine or methysergide), or another 5-hydroxytryptamine<sub>1</sub> (5-HT<sub>1</sub>) agonist [see *Drug Interactions (7.1, 7.3)*].
- Concurrent administration of a monoamine oxidase (MAO)-A inhibitor or recent (within 2 weeks) use of an MAO-A inhibitor [see *Drug Interactions (7.2), Clinical Pharmacology (12.3)*].
- Hypersensitivity to sumatriptan (angioedema and anaphylaxis seen) [see *Warnings and Precautions (5.9)*].
- Severe hepatic impairment [see *Clinical Pharmacology (12.3)*].

### 5 WARNINGS AND PRECAUTIONS

#### 5.1 Myocardial Ischemia, Myocardial Infarction, and Prinzmetal's Angina

The use of sumatriptan injection is contraindicated in patients with ischemic or vasospastic CAD. There have been rare reports of serious cardiac adverse reactions, including acute myocardial infarction, occurring within a few hours following administration of sumatriptan injection. Some of these reactions occurred in patients without known CAD. Sumatriptan injection may cause coronary artery vasospasm (Prinzmetal's angina), even in patients without a history of CAD.

Perform a cardiovascular evaluation in triptan-naïve patients who have multiple cardiovascular risk factors (e.g., increased age, diabetes, hypertension, smoking, obesity, strong family history of CAD) prior to receiving sumatriptan injection. If there is evidence of CAD or coronary artery vasospasm, sumatriptan injection is contraindicated. For patients with multiple cardiovascular risk factors who have a negative cardiovascular evaluation, consider administering the first dose of sumatriptan injection in a medically supervised setting and performing an electrocardiogram (ECG) immediately following

administration of sumatriptan injection. For such patients, consider periodic cardiovascular evaluation in intermittent long-term users of sumatriptan injection.

## **5.2 Arrhythmias**

Life-threatening disturbances of cardiac rhythm, including ventricular tachycardia and ventricular fibrillation leading to death, have been reported within a few hours following the administration of 5-HT<sub>1</sub> agonists. Discontinue sumatriptan injection if these disturbances occur. Sumatriptan injection is contraindicated in patients with Wolff-Parkinson-White syndrome or arrhythmias associated with other cardiac accessory conduction pathway disorders.

## **5.3 Chest, Throat, Neck, and/or Jaw Pain/Tightness/Pressure**

Sensations of tightness, pain, pressure, and heaviness in the precordium, throat, neck, and jaw commonly occur after treatment with sumatriptan injection and are usually non-cardiac in origin. However, perform a cardiac evaluation if these patients are at high cardiac risk. The use of sumatriptan injection is contraindicated in patients with CAD and those with Prinzmetal's variant angina.

## **5.4 Cerebrovascular Events**

Cerebral hemorrhage, subarachnoid hemorrhage, and stroke have occurred in patients treated with 5-HT<sub>1</sub> agonists, and some have resulted in fatalities. In a number of cases, it appears possible that the cerebrovascular events were primary, the 5-HT<sub>1</sub> agonist having been administered in the incorrect belief that the symptoms experienced were a consequence of migraine when they were not. Also, patients with migraine may be at increased risk of certain cerebrovascular events (e.g., stroke, hemorrhage, TIA). Discontinue sumatriptan injection if a cerebrovascular event occurs.

Before treating headaches in patients not previously diagnosed with migraine or cluster headache or in patients who present with atypical symptoms, exclude other potentially serious neurological conditions. Sumatriptan injection is contraindicated in patients with a history of stroke or TIA.

## **5.5 Other Vasospasm Reactions**

Sumatriptan injection may cause non-coronary vasospastic reactions, such as peripheral vascular ischemia, gastrointestinal vascular ischemia and infarction (presenting with abdominal pain and bloody diarrhea), splenic infarction, and Raynaud's syndrome. In patients who experience symptoms or signs suggestive of non-coronary vasospasm reaction following the use of any 5-HT<sub>1</sub> agonist, rule out a vasospastic reaction before receiving additional injections of sumatriptan.

Reports of transient and permanent blindness and significant partial vision loss have been reported with the use of 5-HT<sub>1</sub> agonists. Since visual disorders may be part of a migraine attack, a causal relationship between these events and the use of 5-HT<sub>1</sub> agonists has not been clearly established.

## **5.6 Medication Overuse Headache**

Overuse of acute migraine drugs (e.g., ergotamine, triptans, opioids, or combination of these drugs for 10 or more days per month) may lead to exacerbation of headache (medication overuse headache). Medication overuse headache may present as migraine-like daily headaches or as a marked increase in frequency of migraine attacks. Detoxification of patients, including withdrawal of the overused drugs, and treatment of withdrawal symptoms (which often includes a transient worsening of headache) may be necessary.

## **5.7 Serotonin Syndrome**

Serotonin syndrome may occur with sumatriptan injection, particularly during coadministration with selective serotonin reuptake inhibitors (SSRIs), serotonin norepinephrine reuptake inhibitors (SNRIs), tricyclic antidepressants (TCAs), and MAO inhibitors [see *Drug Interactions (7.4)*]. Serotonin syndrome symptoms may include mental status changes (e.g., agitation, hallucinations, coma), autonomic instability (e.g., tachycardia, labile blood pressure, hyperthermia), neuromuscular aberrations (e.g., hyperreflexia, incoordination), and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). The onset of symptoms usually occurs within minutes to hours of receiving a new or a greater dose of a serotonergic medication. Discontinue sumatriptan injection if serotonin syndrome is suspected.

## **5.8 Increase in Blood Pressure**

Significant elevation in blood pressure, including hypertensive crisis with acute impairment of organ systems, has been reported on rare occasions in patients treated with 5-HT<sub>1</sub> agonists, including patients without a history of hypertension. Monitor blood pressure in patients treated with sumatriptan. Sumatriptan injection is contraindicated in patients with uncontrolled hypertension.

## **5.9 Hypersensitivity Reactions**

Hypersensitivity reactions, including angioedema and anaphylaxis, have occurred in patients receiving sumatriptan. Such reactions can be life-threatening or fatal. In general, anaphylactic reactions to drugs are more likely to occur in individuals with a history of sensitivity to multiple allergens. Sumatriptan injection is contraindicated in patients with a history of hypersensitivity reaction to sumatriptan.

## **5.10 Seizures**

Seizures have been reported following administration of sumatriptan. Some have occurred in patients with either a history of seizures or concurrent conditions predisposing to seizures. There are also reports in patients where no such predisposing factors are apparent. Sumatriptan injection should be used with caution in patients with a history of epilepsy or conditions associated with a lowered seizure threshold.

# **6 ADVERSE REACTIONS**

The following serious adverse reactions are described below and elsewhere in the labeling:

- Myocardial ischemia, myocardial infarction, and Prinzmetal's angina [see *Warnings and Precautions (5.1)*]
- Arrhythmias [see *Warnings and Precautions (5.2)*]
- Chest, throat, neck, and/or jaw pain/tightness/pressure [see *Warnings and Precautions (5.3)*]
- Cerebrovascular events [see *Warnings and Precautions (5.4)*]
- Other vasospasm reactions [see *Warnings and Precautions (5.5)*]
- Medication overuse headache [see *Warnings and Precautions (5.6)*]
- Serotonin syndrome [see *Warnings and Precautions (5.7)*]
- Increase in blood pressure [see *Warnings and Precautions (5.8)*]
- Hypersensitivity reactions [see *Contraindications (4), Warnings and Precautions (5.9)*]
- Seizures [see *Warnings and Precautions (5.10)*]

## 6.1 Clinical Trials Experience

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

### Migraine Headache

Table 1 lists adverse reactions that occurred in 2 U.S. placebo-controlled clinical trials in patients with migraines (Studies 2 and 3) following either a single 6 mg dose of sumatriptan injection or placebo. Only reactions that occurred at a frequency of 2% or more in groups treated with sumatriptan injection 6 mg and that occurred at a frequency greater than the placebo group are included in Table 1.

**Table 1. Adverse Reactions in Pooled Placebo-Controlled Trials in Patients with Migraine (Studies 2 and 3)**

<b>Adverse Reaction</b>	<b>Sumatriptan Injection 6 mg Subcutaneous (n = 547) %</b>	<b>Placebo (n = 370) %</b>
Atypical sensations	42	9
Tingling	14	3
Warm/hot sensation	11	4
Burning sensation	7	<1
Feeling of heaviness	7	1
Pressure sensation	7	2
Feeling of tightness	5	<1
Numbness	5	2
Feeling strange	2	<1
Tight feeling in head	2	<1
Cardiovascular		
Flushing	7	2
Chest discomfort	5	1

Tightness in chest	3	<1
Pressure in chest	2	<1
Ear, nose, and throat		
Throat discomfort	3	<1
Discomfort: nasal cavity/sinuses	2	<1
Injection site reaction <sup>a</sup>	59	24
Miscellaneous		
Jaw discomfort	2	0
Musculoskeletal		
Weakness	5	<1
Neck pain/stiffness	5	<1
Myalgia	2	<1
Neurological		
Dizziness/vertigo	12	4
Drowsiness/sedation	3	2
Headache	2	<1
Skin		
Sweating	2	1

<sup>a</sup> Includes injection site pain, stinging/burning, swelling, erythema, bruising, bleeding.

The incidence of adverse reactions in controlled clinical trials was not affected by gender or age of the patients. There were insufficient data to assess the impact of race on the incidence of adverse reactions.

### Cluster Headache

In the controlled clinical trials assessing the efficacy of sumatriptan injection as a treatment for cluster headache (Studies 4 and 5), no new significant adverse reactions were detected that had not already been identified in trials of sumatriptan in patients with migraine.

Overall, the frequency of adverse reactions reported in the trials of cluster headache was generally lower than in the migraine trials. Exceptions include reports of paresthesia (5% sumatriptan injection, 0% placebo), nausea and vomiting (4% sumatriptan injection, 0% placebo), and bronchospasm (1% sumatriptan injection, 0% placebo).

## **6.2 Postmarketing Experience**

The following adverse reactions have been identified during postapproval use of sumatriptan tablets, sumatriptan nasal spray, and sumatriptan injection. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

### Cardiovascular

Hypotension, palpitations.

### Neurological



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Dystonia, tremor.

## **7 DRUG INTERACTIONS**

### **7.1 Ergot-Containing Drugs**

Ergot-containing drugs have been reported to cause prolonged vasospastic reactions. Because these effects may be additive, use of ergotamine-containing or ergot-type medications (like dihydroergotamine or methysergide) and sumatriptan injection within 24 hours of each other is contraindicated.

### **7.2 Monoamine Oxidase-A Inhibitors**

MAO-A inhibitors increase systemic exposure by 2-fold. Therefore, the use of sumatriptan injection in patients receiving MAO-A inhibitors is contraindicated [see *Clinical Pharmacology (12.3)*].

### **7.3 Other 5-HT<sub>1</sub> Agonists**

Because their vasospastic effects may be additive, coadministration of sumatriptan injection and other 5-HT<sub>1</sub> agonists (e.g., triptans) within 24 hours of each other is contraindicated.

### **7.4 Selective Serotonin Reuptake Inhibitors/Serotonin Norepinephrine Reuptake Inhibitors and Serotonin Syndrome**

Cases of serotonin syndrome have been reported during coadministration of triptans and SSRIs, SNRIs, TCAs, and MAO inhibitors [see *Warnings and Precautions (5.7)*].

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### Risk Summary

Data from a prospective pregnancy exposure registry and epidemiological studies of pregnant women have not detected an increased frequency of birth defects or a consistent pattern of birth defects among women exposed to sumatriptan compared with the general population (*see Data*). In developmental toxicity studies in rats and rabbits, oral administration of sumatriptan to pregnant animals was associated with embryoletality, fetal abnormalities, and pup mortality. When administered by the intravenous route to pregnant rabbits, sumatriptan was embryoletal (*see Data*).

In the U.S. general population, the estimated background risk of major birth defects and of miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively. The reported rate of major birth defects among deliveries to women with

migraine ranged from 2.2% to 2.9% and the reported rate of miscarriage was 17%, which were similar to rates reported in women without migraine.

## Clinical Considerations

### *Disease-Associated Maternal and/or Embryo/Fetal Risk*

Several studies have suggested that women with migraine may be at increased risk of preeclampsia during pregnancy.

## Data

### *Human Data*

The Sumatriptan/Naratriptan/TREXIMET (sumatriptan and naproxen sodium) Pregnancy Registry, a population-based international prospective study, collected data for sumatriptan from January 1996 to September 2012. The Registry documented outcomes of 626 infants and fetuses exposed to sumatriptan during pregnancy (528 with earliest exposure during the first trimester, 78 during the second trimester, 16 during the third trimester, and 4 unknown). The occurrence of major birth defects (excluding fetal deaths and induced abortions without reported defects and all spontaneous pregnancy losses) during first-trimester exposure to sumatriptan was 4.2% (20/478 [95% CI: 2.6% to 6.5%]) and during any trimester of exposure was 4.2% (24/576 [95% CI: 2.7% to 6.2%]). The sample size in this study had 80% power to detect at least a 1.73- to 1.91-fold increase in the rate of major malformations. The number of exposed pregnancy outcomes accumulated during the registry was insufficient to support definitive conclusions about overall malformation risk or for making comparisons of the frequencies of specific birth defects. Of the 20 infants with reported birth defects after exposure to sumatriptan in the first trimester, 4 infants had ventricular septal defects, including one infant who was exposed to both sumatriptan and naratriptan, and 3 infants had pyloric stenosis. No other birth defect was reported for more than 2 infants in this group.

In a study using data from the Swedish Medical Birth Register, live births to women who reported using triptans or ergots during pregnancy were compared with those of women who did not. Of the 2,257 births with first-trimester exposure to sumatriptan, 107 infants were born with malformations (relative risk 0.99 [95% CI: 0.91 to 1.21]). A study using linked data from the Medical Birth Registry of Norway to the Norwegian Prescription Database compared pregnancy outcomes in women who redeemed prescriptions for triptans during pregnancy, as well as a migraine disease comparison group who redeemed prescriptions for sumatriptan before pregnancy only, compared with a population control group. Of the 415 women who redeemed prescriptions for sumatriptan during the first trimester, 15 had infants with major congenital malformations (OR 1.16 [95% CI: 0.69 to 1.94]) while for the 364 women who redeemed prescriptions for sumatriptan before, but not during, pregnancy, 20 had infants with major congenital malformations (OR 1.83 [95% CI: 1.17 to 2.88]), each compared with the population comparison group. Additional smaller observational studies evaluating use of sumatriptan during pregnancy have not suggested an increased risk of teratogenicity.

## *Animal Data*

Oral administration of sumatriptan to pregnant rats during the period of organogenesis resulted in an increased incidence of fetal blood vessel (cervicothoracic and umbilical) abnormalities. The highest no-effect dose for embryofetal developmental toxicity in rats was 60 mg/kg/day. Oral administration of sumatriptan to pregnant rabbits during the period of organogenesis resulted in increased incidences of embryoletality and fetal cervicothoracic vascular and skeletal abnormalities. Intravenous administration of sumatriptan to pregnant rabbits during the period of organogenesis resulted in an increased incidence of embryoletality. The highest oral and intravenous no-effect doses for developmental toxicity in rabbits were 15 and 0.75 mg/kg/day, respectively.

Oral administration of sumatriptan to rats prior to and throughout gestation resulted in embryofetal toxicity (decreased body weight, decreased ossification, increased incidence of skeletal abnormalities). The highest no-effect dose was 50 mg/kg/day. In offspring of pregnant rats treated orally with sumatriptan during organogenesis, there was a decrease in pup survival. The highest no-effect dose for this effect was 60 mg/kg/day. Oral treatment of pregnant rats with sumatriptan during the latter part of gestation and throughout lactation resulted in a decrease in pup survival. The highest no-effect dose for this finding was 100 mg/kg/day.

## **8.2 Lactation**

### Risk Summary

Sumatriptan is excreted in human milk following subcutaneous administration (*see Data*). There are no data on the effects of sumatriptan on the breastfed infant or the effects of sumatriptan on milk production.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for sumatriptan injection and any potential adverse effects on the breastfed infant from sumatriptan or from the underlying maternal condition.

### Clinical Considerations

Infant exposure to sumatriptan can be minimized by avoiding breastfeeding for 12 hours after treatment with sumatriptan injection.

### Data

Following subcutaneous administration of a 6 mg dose of sumatriptan injection in 5 lactating volunteers, sumatriptan was present in milk.

## **8.4 Pediatric Use**

Safety and effectiveness in pediatric patients have not been established. Sumatriptan injection is not recommended for use in patients younger than 18 years of age.

Two controlled clinical trials evaluated sumatriptan nasal spray (5 to 20 mg) in 1,248 pediatric migraineurs aged 12 to 17 years who treated a single attack. The trials did not establish the efficacy of sumatriptan nasal spray compared with placebo in the

treatment of migraine in pediatric patients. Adverse reactions observed in these clinical trials were similar in nature to those reported in clinical trials in adults.

Five controlled clinical trials (2 single-attack trials, 3 multiple-attack trials) evaluating oral sumatriptan (25 to 100 mg) in pediatric patients aged 12 to 17 years enrolled a total of 701 pediatric migraineurs. These trials did not establish the efficacy of oral sumatriptan compared with placebo in the treatment of migraine in pediatric patients. Adverse reactions observed in these clinical trials were similar in nature to those reported in clinical trials in adults. The frequency of all adverse reactions in these patients appeared to be both dose- and age-dependent, with younger patients reporting reactions more commonly than older pediatric patients.

Postmarketing experience documents that serious adverse reactions have occurred in the pediatric population after use of subcutaneous, oral, and/or intranasal sumatriptan. These reports include reactions similar in nature to those reported rarely in adults, including stroke, visual loss, and death. A myocardial infarction has been reported in a 14-year-old male following the use of oral sumatriptan; clinical signs occurred within 1 day of drug administration. Clinical data to determine the frequency of serious adverse reactions in pediatric patients who might receive subcutaneous, oral, or intranasal sumatriptan are not presently available.

## **8.5 Geriatric Use**

Clinical trials of sumatriptan injection did not include sufficient numbers of patients aged 65 years and older to determine whether they respond differently from younger patients. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function and of concomitant disease or other drug therapy.

A cardiovascular evaluation is recommended for geriatric patients who have other cardiovascular risk factors (e.g., diabetes, hypertension, smoking, obesity, strong family history of CAD) prior to receiving sumatriptan injection [*see Warnings and Precautions (5.1)*].

## **10 OVERDOSAGE**

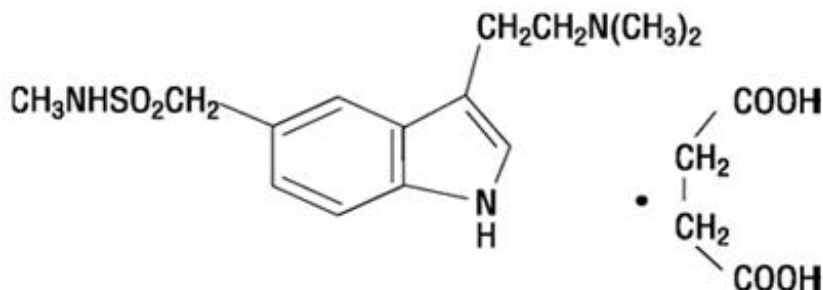
Coronary vasospasm was observed after intravenous administration of sumatriptan injection [*see Contraindications (4)*]. Overdoses would be expected from animal data (dogs at 0.1 g/kg, rats at 2 g/kg) to possibly cause convulsions, tremor, inactivity, erythema of the extremities, reduced respiratory rate, cyanosis, ataxia, mydriasis, injection site reactions (desquamation, hair loss, and scab formation), and paralysis.

The elimination half-life of sumatriptan is about 2 hours [*see Clinical Pharmacology (12.3)*]; therefore, monitoring of patients after overdose with sumatriptan injection should continue for at least 10 hours or while symptoms or signs persist.

It is unknown what effect hemodialysis or peritoneal dialysis has on the serum concentrations of sumatriptan.

## 11 DESCRIPTION

Sumatriptan Injection USP contains sumatriptan succinate, a selective 5-HT<sub>1B/1D</sub> receptor agonist. Sumatriptan succinate is chemically designated as 3-[2-(dimethylamino)ethyl]-N-methyl-indole-5-methanesulfonamide succinate (1:1), and it has the following structure:



The molecular formula is C<sub>14</sub>H<sub>21</sub>N<sub>3</sub>O<sub>2</sub>S•C<sub>4</sub>H<sub>6</sub>O<sub>4</sub>, representing a molecular weight of 413.5. Sumatriptan succinate USP is a white or almost white powder that is readily soluble in water and in saline.

Sumatriptan injection USP is a clear, colorless to pale yellow, sterile, nonpyrogenic solution for subcutaneous injection. Each 0.5 mL of sumatriptan injection USP 12 mg/mL solution contains 8.4 mg of sumatriptan succinate equivalent to 6 mg of sumatriptan and 3.5 mg of sodium chloride, USP in Water for Injection, USP. The pH range of the solution is approximately 4.2 to 5.3. The osmolality of the injection is 291 mOsmol.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Sumatriptan binds with high affinity to human cloned 5-HT<sub>1B/1D</sub> receptors. Sumatriptan presumably exerts its therapeutic effects in the treatment of migraine and cluster headaches through agonist effects at the 5-HT<sub>1B/1D</sub> receptors on intracranial blood vessels and sensory nerves of the trigeminal system, which result in cranial vessel constriction and inhibition of pro-inflammatory neuropeptide release.

### 12.2 Pharmacodynamics

#### Blood Pressure

Significant elevation in blood pressure, including hypertensive crisis, has been reported in patients with and without a history of hypertension [see *Warnings and Precautions* (5.8)].

## Peripheral (Small) Arteries

In healthy volunteers (N = 18), a trial evaluating the effects of sumatriptan on peripheral (small vessel) arterial reactivity failed to detect a clinically significant increase in peripheral resistance.

## Heart Rate

Transient increases in blood pressure observed in some patients in clinical trials carried out during sumatriptan's development as a treatment for migraine were not accompanied by any clinically significant changes in heart rate.

## **12.3 Pharmacokinetics**

### Absorption

The bioavailability of sumatriptan via subcutaneous site injection to 18 healthy male subjects was  $97\% \pm 16\%$  of that obtained following intravenous injection.

After a single 6 mg subcutaneous manual injection into the deltoid area of the arm in 18 healthy males (age:  $24 \pm 6$  years, weight: 70 kg), the maximum serum concentration ( $C_{max}$ ) of sumatriptan was (mean  $\pm$  standard deviation)  $74 \pm 15$  ng/mL and the time to peak concentration ( $T_{max}$ ) was 12 minutes after injection (range: 5 to 20 minutes). In this trial, the same dose injected subcutaneously in the thigh gave a  $C_{max}$  of  $61 \pm 15$  ng/mL by manual injection versus  $52 \pm 15$  ng/mL by autoinjector techniques. The  $T_{max}$  or amount absorbed was not significantly altered by either the site or technique of injection.

### Distribution

Protein binding, determined by equilibrium dialysis over the concentration range of 10 to 1,000 ng/mL is low, approximately 14% to 21%. The effect of sumatriptan on the protein binding of other drugs has not been evaluated.

Following a 6 mg subcutaneous injection into the deltoid area of the arm in 9 males (mean age: 33 years, mean weight: 77 kg) the volume of distribution central compartment of sumatriptan was  $50 \pm 8$  liters and the distribution half-life was  $15 \pm 2$  minutes.

### Metabolism

*In vitro* studies with human microsomes suggest that sumatriptan is metabolized by MAO, predominantly the A isoenzyme. Most of a radiolabeled dose of sumatriptan excreted in the urine is the major metabolite indole acetic acid (IAA) or the IAA glucuronide, both of which are inactive.

### Elimination

After a single 6 mg subcutaneous dose,  $22\% \pm 4\%$  was excreted in the urine as unchanged sumatriptan and  $38\% \pm 7\%$  as the IAA metabolite.

Following a 6 mg subcutaneous injection into the deltoid area of the arm, the systemic clearance of sumatriptan was  $1,194 \pm 149$  mL/min and the terminal half-life was  $115 \pm 19$  minutes.

## Specific Populations

### *Age*

The pharmacokinetics of sumatriptan in the elderly (mean age: 72 years, 2 males and 4 females) and in subjects with migraine (mean age: 38 years, 25 males and 155 females) were similar to that in healthy male subjects (mean age: 30 years).

### *Patients with Hepatic Impairment*

The effect of mild to moderate hepatic disease on the pharmacokinetics of subcutaneously administered sumatriptan has been evaluated. There were no significant differences in the pharmacokinetics of subcutaneously administered sumatriptan in moderately hepatically impaired subjects compared with healthy controls. The pharmacokinetics of subcutaneously administered sumatriptan in patients with severe hepatic impairment has not been studied. The use of sumatriptan injection in this population is contraindicated [see *Contraindications (4)*].

### *Racial Groups*

The systemic clearance and  $C_{\max}$  of subcutaneous sumatriptan were similar in black (n = 34) and Caucasian (n = 38) healthy male subjects.

## Drug Interaction Studies

### *Monoamine Oxidase-A Inhibitors*

In a trial of 14 healthy females, pretreatment with an MAO-A inhibitor decreased the clearance of subcutaneous sumatriptan, resulting in a 2-fold increase in the area under the sumatriptan plasma concentration-time curve (AUC), corresponding to a 40% increase in elimination half-life.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

#### Carcinogenesis

In carcinogenicity studies in mouse and rat, sumatriptan was administered orally for 78 weeks and 104 weeks, respectively, at doses up to 160 mg/kg/day (the high dose in rat

was reduced from 360 mg/kg/day during Week 21). The highest dose to mice and rats was approximately 130 and 260 times the single MRHD of 6 mg administered subcutaneously on a mg/m<sup>2</sup> basis. There was no evidence in either species of an increase in tumors related to sumatriptan administration.

### Mutagenesis

Sumatriptan was negative in *in vitro* (bacterial reverse mutation [Ames], gene cell mutation in Chinese hamster V79/HGPRT, chromosomal aberration in human lymphocytes) and *in vivo* (rat micronucleus) assays.

### Impairment of Fertility

When sumatriptan (5, 50, 500 mg/kg/day) was administered orally to male and female rats prior to and throughout the mating period, there was a treatment-related decrease in fertility secondary to a decrease in mating in animals treated with doses greater than 5 mg/kg/day. It is not clear whether this finding was due to an effect on males or females or both.

When sumatriptan was administered by subcutaneous injection to male and female rats prior to and throughout the mating period, there was no evidence of impaired fertility at doses up to 60 mg/kg/day.

## **13.2 Animal Toxicology and/or Pharmacology**

### Corneal Opacities

Dogs receiving oral sumatriptan developed corneal opacities and defects in the corneal epithelium. Corneal opacities were seen at the lowest dose tested, 2 mg/kg/day, and were present after 1 month of treatment. Defects in the corneal epithelium were noted in a 60-week study. Earlier examinations for these toxicities were not conducted and no-effect doses were not established; however, the relative plasma exposure at the lowest dose tested was approximately 3 times the human exposure after a 6 mg subcutaneous dose.

## **14 CLINICAL STUDIES**

### **14.1 Migraine**

In controlled clinical trials enrolling more than 1,000 patients during migraine attacks who were experiencing moderate or severe pain and 1 or more of the symptoms enumerated in Table 3, onset of relief began as early as 10 minutes following a 6 mg sumatriptan injection. Lower doses of sumatriptan injection may also prove effective, although the proportion of patients obtaining adequate relief was decreased and the latency to that relief is greater with lower doses.

In Study 1, 6 different doses of sumatriptan injection (n = 30 each group) were compared with placebo (n = 62) in a single-attack, parallel-group design; the dose-



response relationship was found to be as shown in Table 2.

**Table 2. Proportion of Patients with Migraine Relief and Incidence of Adverse Reactions by Time and by Dose of Sumatriptan Injection in Study 1**

Dose of Sumatriptan Injection	Percent Patients with Relief <sup>a</sup>				Adverse Reactions Incidence (%)
	at 10 Minutes	at 30 Minutes	at 1 Hour	at 2 Hours	
Placebo	5	15	24	21	55
1 mg	10	40	43	40	63
2 mg	7	23	57	43	63
3 mg	17	47	57	60	77
4 mg	13	37	50	57	80
6 mg	10	63	73	70	83
8 mg	23	57	80	83	93

<sup>a</sup> Relief is defined as the reduction of moderate or severe pain to no or mild pain after dosing without use of rescue medication.

In 2 randomized, placebo-controlled clinical trials of sumatriptan injection 6 mg in 1,104 patients with moderate or severe migraine pain (Studies 2 and 3), the onset of relief was less than 10 minutes. Headache relief, as defined by a reduction in pain from severe or moderately severe to mild or no headache, was achieved in 70% of the patients within 1 hour of a single 6 mg subcutaneous dose of sumatriptan injection. Approximately 82% and 65% of patients treated with sumatriptan injection 6 mg had headache relief and were pain free within 2 hours, respectively.

Table 3 shows the 1- and 2-hour efficacy results for sumatriptan injection 6 mg in Studies 2 and 3.

**Table 3. Proportion of Patients with Pain Relief and Relief of Migraine Symptoms after 1 and 2 Hours of Treatment in Studies 2 and 3**

	Study 2		Study 3	
	Placebo (n = 190)	Sumatriptan 6 mg (n = 384)	Placebo (n = 180)	Sumatriptan 6 mg (n = 350)
<b>1-Hour Data</b>				
Patients with pain relief (Grade 0/1)	18%	70% <sup>a</sup>	26%	70% <sup>a</sup>
Patients with no pain	5%	48% <sup>a</sup>	13%	49% <sup>a</sup>
Patients without nausea	48%	73% <sup>a</sup>	50%	73% <sup>a</sup>
Patients without photophobia	23%	56% <sup>a</sup>	25%	58% <sup>a</sup>
Patients with little or no clinical disability <sup>b</sup>	34%	76% <sup>a</sup>	34%	76% <sup>a</sup>
<b>2-Hour Data</b>				
	Placebo <sup>c</sup>	Sumatriptan 6 mg <sup>d</sup>	Placebo <sup>c</sup>	Sumatriptan 6 mg <sup>d</sup>
Patients with pain relief (Grade 0/1)	31%	81% <sup>a</sup>	39%	82% <sup>a</sup>
Patients with no pain	11%	63% <sup>a</sup>	19%	65% <sup>a</sup>

Patients without nausea	56%	82% <sup>a</sup>	63%	81% <sup>a</sup>
Patients without photophobia	31%	72% <sup>a</sup>	35%	71% <sup>a</sup>
Patients with little or no clinical disability <sup>b</sup>	42%	85% <sup>a</sup>	49%	84% <sup>a</sup>

<sup>a</sup>  $P < 0.05$  versus placebo.

<sup>b</sup> A successful outcome in terms of clinical disability was defined prospectively as ability to work mildly impaired or ability to work and function normally.

<sup>c</sup> Includes patients that may have received an additional placebo injection 1 hour after the initial injection.

<sup>d</sup> Includes patients that may have received an additional 6 mg of sumatriptan injection 1 hour after the initial injection.

Sumatriptan injection also relieved photophobia, phonophobia (sound sensitivity), nausea, and vomiting associated with migraine attacks.

The efficacy of sumatriptan injection was unaffected by whether or not the migraine was associated with aura, duration of attack, gender or age of the patient, or concomitant use of common migraine prophylactic drugs (e.g., beta-blockers).

## 14.2 Cluster Headache

The efficacy of sumatriptan injection in the acute treatment of cluster headache was demonstrated in 2 randomized, double-blind, placebo-controlled, 2-period crossover trials (Studies 4 and 5). Patients aged 21 to 65 years were enrolled and were instructed to treat a moderate to very severe headache within 10 minutes of onset. Headache relief was defined as a reduction in headache severity to mild or no pain. In both trials, the proportion of individuals gaining relief at 10 or 15 minutes was significantly greater among patients receiving 6 mg of sumatriptan injection compared with those who received placebo (see Table 4).

**Table 4. Proportion of Patients with Cluster Headache Relief by Time in Studies 4 and 5**

	Study 4		Study 5	
	Placebo (n = 39)	Sumatriptan 6 mg (n = 39)	Placebo (n = 88)	Sumatriptan 6 mg (n = 92)
Patients with pain relief (no/mild)				
5 Minutes post-injection	8%	21%	7%	23% <sup>a</sup>
10 Minutes post-injection	10%	49% <sup>a</sup>	25%	49% <sup>a</sup>
15 Minutes post-injection	26%	74% <sup>a</sup>	35%	75% <sup>a</sup>

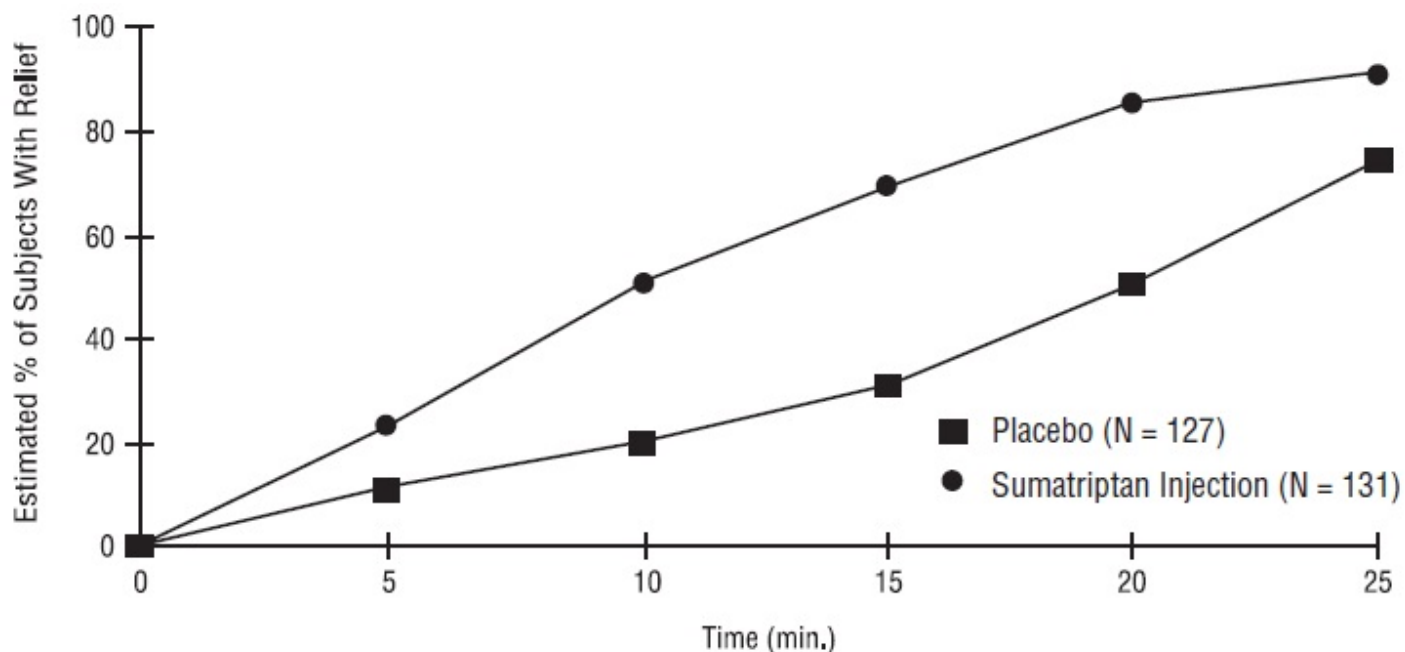
<sup>a</sup> $P < 0.05$ .

n = Number of headaches treated.

An estimate of the cumulative probability of a patient with a cluster headache obtaining

relief after being treated with either sumatriptan injection or placebo is presented in Figure 1.

**Figure 1. Time to Relief of Cluster Headache from Time of Injection<sup>a</sup>**



<sup>a</sup> The figure uses Kaplan-Meier (product limit) Survivorship Plot. Patients taking rescue medication were censored at 15 minutes.

The plot was constructed with data from patients who either experienced relief or did not require (request) rescue medication within a period of 2 hours following treatment. As a consequence, the data in the plot are derived from only a subset of the 258 headaches treated (rescue medication was required in 52 of the 127 placebo-treated headaches and 18 of the 131 headaches treated with sumatriptan injection).

Other data suggest that treatment with sumatriptan injection is not associated with an increase in early recurrence of headache and has little effect on the incidence of later-occurring headaches (i.e., those occurring after 2, but before 18 or 24 hours).

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

Sumatriptan Injection USP contains sumatriptan as sumatriptan succinate USP and is supplied as a clear, colorless to pale yellow, sterile, nonpyrogenic solution as follows:

Sumatriptan Injection USP, 6 mg per 0.5 mL  
Single-Dose Vials in a Carton of 5  
NDC 55150-173-01

Store between 2° and 30°C (36° and 86°F). Protect from light.

The vial stopper is not made with natural rubber latex.

## **17 PATIENT COUNSELING INFORMATION**

Advise the patient to read the FDA-approved patient labeling (Patient Information).

### Risk of Myocardial Ischemia and/or Infarction, Prinzmetal's Angina, Other Vasospasm-Related Events, Arrhythmias, and Cerebrovascular Events

Inform patients that sumatriptan injection may cause serious cardiovascular side effects such as myocardial infarction or stroke. Although serious cardiovascular events can occur without warning symptoms, patients should be alert for the signs and symptoms of chest pain, shortness of breath, irregular heartbeat, significant rise in blood pressure, weakness, and slurring of speech, and should ask for medical advice if any indicative sign or symptoms are observed. Apprise patients of the importance of this follow-up [see *Warnings and Precautions (5.1, 5.2, 5.4, 5.5, 5.8)*].

### Hypersensitivity Reactions

Inform patients that anaphylactic reactions have occurred in patients receiving sumatriptan injection. Such reactions can be life-threatening or fatal. In general, anaphylactic reactions to drugs are more likely to occur in individuals with a history of sensitivity to multiple allergens [see *Contraindications (4), Warnings and Precautions (5.9)*].

### Concomitant Use with Other Triptans or Ergot Medications

Inform patients that use of sumatriptan injection within 24 hours of another triptan or an ergot-type medication (including dihydroergotamine or methysergide) is contraindicated [see *Contraindications (4), Drug Interactions (7.1, 7.3)*].

### Serotonin Syndrome

Caution patients about the risk of serotonin syndrome with the use of sumatriptan injection or other triptans, particularly during combined use with SSRIs, SNRIs, TCAs, and MAO inhibitors [see *Warnings and Precautions (5.7), Drug Interactions (7.4)*].

### Medication Overuse Headache

Inform patients that use of acute migraine drugs for 10 or more days per month may lead to an exacerbation of headache and encourage patients to record headache frequency and drug use (e.g., by keeping a headache diary) [see *Warnings and Precautions (5.6)*].

### Pregnancy

Advise patients to notify their healthcare provider if they become pregnant during treatment or plan to become pregnant [see *Use in Specific Populations (8.1)*].

## Lactation

Advise patients to notify their healthcare provider if they are breastfeeding or plan to breastfeed [see *Use in Specific Populations (8.2)*].

## Ability to Perform Complex Tasks

Treatment with sumatriptan injection may cause somnolence and dizziness; instruct patients to evaluate their ability to perform complex tasks after administration of sumatriptan injection.

## How to Use Sumatriptan Injection

Instruct patients to read the Instructions for Use before starting therapy. Provide patients instruction on the proper use of sumatriptan injection if they are able to self-administer sumatriptan injection in medically unsupervised situations. Instruct patients on storage and disposal of the pen [see *How Supplied/Storage and Handling (16)*].

Inform patients that the injection is intended to be given subcutaneously and intramuscular or intravascular delivery should be avoided. Instruct patients to use injection sites with an adequate skin and subcutaneous thickness to accommodate the length of the needle.

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**Eugia US LLC**

279 Princeton-Hightstown Rd.  
E. Windsor, NJ 08520

Manufactured by:

**Eugia Pharma Specialities Limited**

Hyderabad - 500032  
India

## **Patient Information**

**Sumatriptan (soo'' ma trip' tan)  
Injection USP**

**What is the most important information I should know about sumatriptan?**

**Sumatriptan can cause serious side effects, including:**

**Heart attack and other heart problems. Heart problems may lead to death.**

**Stop taking sumatriptan and get emergency medical help right away if you have any of the following symptoms of a heart attack:**

- discomfort in the center of your chest that lasts for more than a few minutes, or that goes away and comes back
- severe tightness, pain, pressure, or heaviness in your chest, throat, neck, or jaw
- pain or discomfort in your arms, back, neck, jaw, or stomach
- shortness of breath with or without chest discomfort
- breaking out in a cold sweat
- nausea or vomiting
- feeling lightheaded

Sumatriptan is not for people with risk factors for heart disease unless a heart exam is done and shows no problem. You have a higher risk for heart disease if you:

- have high blood pressure
- have high cholesterol levels
- smoke
- are overweight
- have diabetes
- have a family history of heart disease

### **What is Sumatriptan?**

Sumatriptan injection is a prescription medicine used to treat acute migraine headaches with or without aura and acute cluster headaches in adults who have been diagnosed with migraine or cluster headaches.

Sumatriptan is not used to treat other types of headaches such as hemiplegic (that make you unable to move on one side of your body) or basilar (rare form of migraine with aura) migraines.

Sumatriptan is not used to prevent or decrease the number of migraine or cluster headaches you have.

It is not known if sumatriptan is safe and effective in children under 18 years of age.

### **Do not take sumatriptan if you have:**

- heart problems or a history of heart problems.
- narrowing of blood vessels to your legs, arms, stomach, or kidneys (peripheral vascular disease).
- uncontrolled high blood pressure.
- severe liver problems.
- hemiplegic migraines or basilar migraines. If you are not sure if you have these types of migraines, ask your healthcare provider.
- had a stroke, transient ischemic attacks (TIAs), or problems with your blood circulation.
- taken any of the following medicines in the last 24 hours:
  - o almotriptan (AXERT)
  - o frovatriptan (FROVA)
  - o rizatriptan (MAXALT, MAXALT-MLT) (TREXIMET)
  - o ergotamines (CAFERGOT, ERGOMAR, MIGERGOT)
  - o eletriptan (RELPAK)
  - o naratriptan (AMERGE)
  - o sumatriptan and naproxen
  - o dihydroergotamine (D.H.E.

45, MIGRANAL)

Ask your healthcare provider if you are not sure if your medicine is listed above.

- an allergy to sumatriptan or any of the ingredients in sumatriptan injection. See the end of this leaflet for a complete list of ingredients in sumatriptan injection.

**Before taking sumatriptan, tell your healthcare provider about all of your medical conditions, including if you:**

- have high blood pressure
- have high cholesterol
- have diabetes
- smoke
- are overweight
- have heart problems or family history of heart problems or stroke
- have kidney problems
- have liver problems
- have had epilepsy or seizures
- are not using effective birth control
- are pregnant or plan to become pregnant. It is not known if sumatriptan can harm your unborn baby.
- are breastfeeding or plan to breastfeed. Sumatriptan passes into your breast milk. It is not known if this can harm your baby. Talk with your healthcare provider about the best way to feed your baby if you take sumatriptan.

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

Sumatriptan and certain other medicines can affect each other, causing serious side effects.

**Especially tell your healthcare provider if** you take antidepressant medicines called:

- selective serotonin reuptake inhibitors (SSRIs)
- serotonin norepinephrine reuptake inhibitors (SNRIs)
- tricyclic antidepressants (TCAs)
- monoamine oxidase inhibitors (MAOIs)

Ask your healthcare provider or pharmacist for a list of these medicines if you are not sure.

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

**How should I take sumatriptan?**

- Certain people should take their first dose of sumatriptan in their healthcare provider's office or in another medical setting. Ask your healthcare provider if you should take your first dose in a medical setting.
- Use sumatriptan exactly as your healthcare provider tells you to use it.
- Your healthcare provider may change your dose. Do not change your dose without first talking with your healthcare provider.
- For adults, the usual dose is a single injection given just below the skin.

- You should give an injection as soon as the symptoms of your headache start, but it may be given at any time during a migraine or cluster headache attack.
- If you did not get any relief after the first injection, do not give a second injection without first talking with your healthcare provider.
- If your headache comes back or you only get some relief after your first injection, you can take a second injection 1 hour after the first injection, but not sooner.
- Do not take more than 12 mg in a 24-hour period.
- If you use too much sumatriptan, call your healthcare provider or go to the nearest hospital emergency room right away.
- You should write down when you have headaches and when you take sumatriptan so you can talk with your healthcare provider about how sumatriptan is working for you.

### **What should I avoid while taking sumatriptan?**

Sumatriptan can cause dizziness, weakness, or drowsiness. If you have these symptoms, do not drive a car, use machinery, or do anything where you need to be alert.

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

**Sumatriptan may cause serious side effects.** See “What is the most important information I should know about sumatriptan?”

These serious side effects include:

- changes in color or sensation in your fingers and toes (Raynaud’s syndrome)
- stomach and intestinal problems (gastrointestinal and colonic ischemic events).  
Symptoms of gastrointestinal and colonic ischemic events include:
  - o sudden or severe stomach pain
  - o stomach pain after meals
  - o weight loss
  - o fever
  - o nausea or vomiting
  - o constipation or diarrhea
  - o bloody diarrhea
- problems with blood circulation to your legs and feet (peripheral vascular ischemia).  
Symptoms of peripheral vascular ischemia include:
  - o cramping and pain in your legs or hips
  - o feeling of heaviness or tightness in your leg muscles
  - o burning or aching pain in your feet or toes while resting
  - o numbness, tingling, or weakness in your legs
  - o cold feeling or color changes in 1 or both legs or feet
- medication overuse headaches. Some people who use too many sumatriptan injections may have worse headaches (medication overuse headache). If your headaches get worse, your healthcare provider may decide to stop your treatment with sumatriptan.
- serotonin syndrome. Serotonin syndrome is a rare but serious problem that can happen in people using sumatriptan, especially if sumatriptan is used with anti-depressant medicines called SSRIs or SNRIs.  
Call your healthcare provider right away if you have any of the following symptoms of serotonin syndrome:
  - o mental changes such as seeing things that are not there (hallucinations), agitation, or coma
  - o fast heartbeat



- o changes in blood pressure
- o high body temperature
- o tight muscles
- o trouble walking
- hives (itchy bumps); swelling of your tongue, mouth or throat.
- seizures. Seizures have happened in people taking sumatriptan who have never had seizures before. Talk with your healthcare provider about your chance of having seizures while you take sumatriptan.

The most common side effects of sumatriptan injection include:

- pain or redness at your injection site
- tingling or numbness in your fingers or toes
- dizziness
- warm, hot, burning feeling to your face (flushing)
- discomfort or stiffness in your neck
- feeling weak, drowsy, or tired

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 sumatriptan. 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 Sumatriptan Injection?**

- Store sumatriptan injection between 36°F to 86°F (2°C to 30°C).
- Store your medicine away from light.
- Keep your medicine in the packaging provided with it.

**Keep sumatriptan and all medicines out of the reach of children.**

### **General information about the safe and effective use of sumatriptan**

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

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

For more information, call 1-866-850-2876.

### **What are the ingredients in Sumatriptan Injection?**

Active ingredient: sumatriptan succinate

Inactive ingredients: sodium chloride, water for injection

All brands listed are the trademarks of their respective owners and are not trademarks of Eugia Pharma Specialities Limited.

This Patient Information has been approved by the U.S. Food and Drug Administration.

Distributed by:

**Eugia US LLC**

279 Princeton-Hightstown Rd.

E. Windsor, NJ 08520

Manufactured by:

**Eugia Pharma Specialities Limited**

Hyderabad - 500032

India

Revised: July 2023

**PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 6 mg/0.5 mL - Container Label**


**Rx Only NDC 55150-173-01**

**Sumatriptan**

**Injection USP**

**6 mg per 0.5 mL**

**For subcutaneous  
injection only.**

Rx only NDC 55150-173-01	Mfd. in India for: Eugia US LLC E. Windsor, NJ 08520		 N 3 5 5 1 5 0 1 7 3 0 1 3
<b>Sumatriptan Injection USP</b>	Code: TS/DRUGS/13/2010	P1432126	
<b>6 mg per 0.5 mL</b>	*		
<b>For subcutaneous injection only.</b>			

**PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 6 mg/0.5 mL - Container-Carton**



# SUMATRIPTAN

sumatriptan injection, solution

## Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:55150-173
<b>Route of Administration</b>	SUBCUTANEOUS		

## Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>SUMATRIPTAN SUCCINATE</b> (UNII: J8BDZ 68989) (SUMATRIPTAN - UNII:8R78F6L9VO)	SUMATRIPTAN	6 mg in 0.5 mL

## Inactive Ingredients

Ingredient Name	Strength
<b>SODIUM CHLORIDE</b> (UNII: 451W47IQ8X)	
<b>WATER</b> (UNII: 059QF0K00R)	

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:55150-173-01	5 in 1 CARTON	04/23/2013	
1		0.5 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202758	04/23/2013	

**Labeler** - Eugia US LLC (968961354)

## Establishment

Name	Address	ID/FEI	Business Operations
Eugia Pharma Specialities		650409244	ANALYSIS(55150-173) , MANUFACTURE(55150-173) ,

Limited

030490244

PACK(55150-173)

Revised: 8/2023

Eugia US LLC