

## **PRODUCT MONOGRAPH**

<sup>Pr</sup> **JAMP Eletriptan**

Eletriptan Hydrobromide Tablets

20 mg and 40 mg eletriptan (as eletriptan hydrobromide)

5-HT<sub>1</sub> Receptor Agonist  
Migraine Therapy

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## Pr JAMP Eletriptan

### Eletriptan Hydrobromide Tablets

#### PART I: HEALTH PROFESSIONAL INFORMATION

##### SUMMARY PRODUCT INFORMATION

Route of Administration	Dosage Form / Strength	All Nonmedicinal Ingredients
oral	Tablets 20 mg , 40 mg	Croscarmellose sodium, FD & C Yellow No 6, FCF aluminum lake, lactose monohydrate, microcrystalline cellulose, magnesium stearate, titanium dioxide polyvinyl alcohol, macrogol and talc.

##### INDICATIONS AND CLINICAL USE

###### Adults

JAMP Eletriptan (eletriptan hydrobromide) is indicated for the acute treatment of migraine with or without aura in adults.

JAMP Eletriptan tablets are not intended for the prophylactic therapy of migraine or for use in the management of hemiplegic, ophthalmoplegic or basilar migraine (see **CONTRAINDICATIONS**). Safety and effectiveness of eletriptan hydrobromide tablets have not been established for cluster headache, which is present in an older, predominantly male population.

###### Pediatrics (< 18 years of age)

The safety and efficacy of eletriptan hydrobromide tablets in children has not been established and its use in this age group is not recommended. (See WARNINGS and PRECAUTIONS)

###### Geriatrics (> 65 x years of age)

Experience of the use of eletriptan hydrobromide tablets in patients aged over 65 years is limited. Therefore the use of JAMP Eletriptan in patients over 65 years is not recommended. (See WARNINGS and PRECAUTIONS).

##### CONTRAINDICATIONS

JAMP Eletriptan (eletriptan hydrobromide) tablets are contraindicated in patients with history, symptoms, or signs of ischemic cardiac, cerebrovascular or peripheral vascular syndromes, valvular heart disease or cardiac arrhythmias (especially tachycardias). In addition, patients with other significant underlying cardiovascular diseases (eg, atherosclerotic **disease, congenital heart disease**) **should not receive eletriptan. Ischemic cardiac syndromes include, but are not**

restricted to, angina pectoris of any type (eg, stable angina of effort and vasospastic forms of angina such as the Prinzmetal's variant), all forms of myocardial infarction, and silent myocardial ischemia. Cerebrovascular syndromes include, but are not limited to, strokes of any type as well as transient ischemic attacks (TIAs). Peripheral vascular disease includes, but is not limited to, ischemic bowel disease, or Raynaud's syndrome (see WARNINGS AND PRECAUTIONS).

Because JAMP Eletriptan may increase blood pressure it is contraindicated in patients with uncontrolled or severe hypertension (see WARNINGS AND PRECAUTIONS).

**CYP3A4 Inhibitors:** JAMP Eletriptan is contraindicated within 72 hours of treatment with the following potent CYP3A4 inhibitors: ketoconazole, itraconazole, nefazodone, troleandomycin, clarithromycin, ritonavir, and nelfinavir. JAMP Eletriptan is contraindicated within 72 hours with drugs that have demonstrated potent CYP3A4 inhibition and have this potent effect described in the CONTRAINDICATIONS, or WARNINGS AND PRECAUTIONS sections of their labeling (see WARNINGS AND PRECAUTIONS, DRUG INTERACTIONS and DOSAGE AND ADMINISTRATION).

JAMP Eletriptan is contraindicated within 24 hours of treatment with another 5 HT<sub>1</sub> agonist, an ergotamine containing or ergot type medication such as dihydroergotamine (DHE) or methysergide.

JAMP Eletriptan is contraindicated in patients with hemiplegic ophthalmoplegic or basilar migraine

JAMP Eletriptan tablets are contraindicated in patients with severe hepatic impairment.

JAMP Eletriptan tablets are contraindicated in patients with known hypersensitivity to eletriptan or to any of its inactive ingredients.

## WARNINGS AND PRECAUTIONS

### **General**

JAMP Eletriptan (eletriptan hydrobromide) tablets should only be used where a clear diagnosis of migraine has been established.

**Medication Overuse Headache:** Overuse of acute migraine treatments has been associated with the exacerbation of headache (medication overuse headache, MOH) in susceptible patients. Withdrawal of the treatment may be necessary.

### **CYP3A4 Inhibitors**

Eletriptan is metabolized by the CYP3A4 enzyme. JAMP Eletriptan is contraindicated within 72 hours of treatment with the following potent CYP3A4 inhibitors: ketoconazole, itraconazole, nefazodone, troleandomycin, clarithromycin, ritonavir, and nelfinavir.

JAMP Eletriptan is contraindicated within 72 hours with drugs that have demonstrated potent CYP3A4 inhibition and have this potent effect described in the CONTRAINDICATIONS or WARNINGS AND PRECAUTIONS sections of their labeling (see DRUG INTERACTIONS and DOSAGE AND ADMINISTRATION).

## **Cardiovascular**

### **Risk of Myocardial Ischemia and/or Infarction and Other Cardiac Events**

As with other triptans, eletriptan has been associated with transient pain or pressure sensation in the chest or throat. Because of the potential of 5-HT<sub>1</sub> agonists to cause coronary vasospasm, eletriptan should not be given to patients with documented ischemic or vasospastic coronary artery disease (CAD) (see CONTRAINDICATIONS). It is strongly recommended that eletriptan not be given to patients in whom unrecognized CAD is predicted by the presence of risk factors (eg, hypertension, hypercholesterolemia, smoker, obesity, diabetes, strong family history of CAD, female with surgical or physiological menopause, or male over 40 years of age) unless a cardiovascular evaluation provides satisfactory clinical evidence that the patient is reasonably free of coronary artery and ischemic myocardial disease, or other significant underlying cardiovascular disease. The sensitivity of cardiac diagnostic procedures to detect cardiovascular disease or predisposition to coronary artery vasospasm is modest, at best. If, during the cardiovascular evaluation, the patient's medical history, electrocardiographic, or other investigations reveal findings indicative of, or consistent with coronary artery vasospasm or myocardial ischemia, eletriptan should not be administered (see CONTRAINDICATIONS).

These evaluations, however, may not identify every patient who has cardiac disease, and in very rare cases, serious cardiac events, such as myocardial infarction or coronary ischemia have occurred in patients without evidence of underlying cardiovascular disease.

For patients with risk factors predictive of CAD who are determined to have a satisfactory cardiovascular evaluation, it is strongly recommended that administration of the first dose of eletriptan take place in the setting of a physician's office or similar medically staffed and equipped facility unless the patient has previously received eletriptan. Because cardiac ischemia can occur in the absence of clinical symptoms, consideration should be given to obtaining, on the first occasion of use, an electrocardiogram (ECG) during the interval immediately following administration of eletriptan, in patients with risk factors. However, an absence of drug-induced cardiovascular effects on the occasion of the initial dose does not preclude the possibility of such effects occurring with subsequent administrations.

It is recommended that patients who are intermittent long-term users of 5-HT<sub>1</sub> agonists including eletriptan, and who have or acquire risk factors predictive of CAD, as described above, undergo periodic cardiovascular evaluation as they continue to use eletriptan.

If symptoms consistent with angina occur after the use of eletriptan, ECG evaluation should be carried out to look for ischemic changes.

*The systematic approach described above is intended to reduce the likelihood that patients with unrecognized cardiovascular disease will be inadvertently exposed to therapy with eletriptan.*

**Discomfort in the chest, neck, throat and jaw (including pain, pressure, heaviness, and tightness) has been reported after administration of eletriptan. Because 5-HT<sub>1</sub> agonists may cause coronary vasospasm, patients who experience signs or symptoms suggestive of angina**

**following eletriptan should be evaluated for the presence of CAD or a predisposition to variant angina before receiving additional doses, and should be monitored electrocardiographically if dosing is resumed and similar symptoms recur. Similarly, patients who experience other symptoms or signs suggestive of decreased arterial flow, such as ischemic bowel syndrome or Raynaud's syndrome following eletriptan should be evaluated for atherosclerosis or predisposition to vasospasm (see CONTRAINDICATIONS and WARNINGS and PRECAUTIONS and ADVERSE DRUG REACTIONS, Clinical Trial Adverse Drug Reactions).**

### **Cardiac Events and Fatalities Associated with 5-HT<sub>1</sub> Agonists**

As with other triptans, eletriptan may cause coronary artery vasospasm. Serious adverse cardiac events, including acute myocardial infarction, life-threatening disturbances of cardiac rhythm, and death have been reported within a few hours following the administration of other 5-HT<sub>1</sub> agonists. Considering the extent of use of 5-HT<sub>1</sub> agonists in patients with migraine, the incidence of these events is extremely low.

Patients with symptomatic Wolff-Parkinson-White syndrome or arrhythmias associated with other cardiac accessory conduction pathway disorders should not receive JAMP Eletriptan.

As with other 5-HT<sub>1</sub> agonists, sensations of tightness, pain, pressure, and heaviness have been reported after treatment with eletriptan hydrobromide tablets in the precordium, throat and jaw. Events that are localized to the chest, throat, neck and jaw have not been associated with arrhythmias or ischemic ECG changes in clinical trials.

*Premarketing experience with eletriptan:* In a clinical pharmacology study, in subjects undergoing diagnostic coronary angiography, a subject with a history of angina, hypertension and hypercholesterolemia, receiving intravenous eletriptan (C<sub>max</sub> of 127 ng/mL equivalent to 60 mg oral eletriptan), reported chest tightness and experienced angiographically documented coronary vasospasm with no ECG changes indicative of ischemia. There was also 1 report of atrial fibrillation in a patient with a past history of atrial fibrillation.

Because 5-HT<sub>1</sub> agonists may cause coronary artery vasospasm, patients who experience signs or symptoms suggestive of angina following dosing should be evaluated for the presence of CAD or a predisposition to Prinzmetal's variant angina before receiving additional doses of medication, and should be monitored electrocardiographically if dosing is resumed and similar symptoms recur. Similarly, patients who experience other symptoms or signs suggestive of decreased arterial flow, such as ischemic bowel syndrome or Raynaud's syndrome, following the use of any 5-HT<sub>1</sub> agonist are candidates for further evaluation (see **CONTRAINDICATIONS**)

In another coronary angiography study, supratherapeutic doses of eletriptan (comparable to 2 X 80 mg in the presence of a potent CYP3A4 inhibitor), administered as a rapid intravenous infusion, were compared with a standard formulation and dose of sumatriptan (6mg sc) and placebo. There were 8 subjective reports of vasoconstriction in the eletriptan group (compared with no cases in the sumatriptan or placebo groups); however, mean change in coronary artery diameter, as determined by quantitative coronary angiography, did not differ in the 3 treatment groups.

*Postmarketing experience with eletriptan:* Cases of myocardial infarction and cardiac death have

been reported in patients with cardiovascular risk factors (e.g. hypertension, hyperlipidemia, strong family history of CAD) or with inappropriate concomitant use of therapeutic doses of eletriptan and other triptans.

The uncontrolled nature of postmarketing surveillance, however, makes it impossible to determine definitively if the cases were actually caused by eletriptan or to reliably assess causation in individual cases.

### **Cerebrovascular Events and Fatalities Associated with 5-HT<sub>1</sub> Agonists**

Cerebral hemorrhage, subarachnoid hemorrhage, stroke, and other cerebrovascular events have been reported 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 agonist having been administered in the incorrect belief that the symptoms experienced were a consequence of migraine, when they were not. It should be noted that patients with migraine may be at increased risk of certain cerebrovascular events (eg, stroke, hemorrhage, transient ischemic attack).

### **Special Cardiovascular Pharmacology Studies with Another 5-HT<sub>1</sub> Agonist**

In subjects (n=10) with suspected coronary artery disease undergoing angiography, a 5-HT<sub>1</sub> agonist at a subcutaneous dose of 1.5 mg produced an 8% increase in aortic blood pressure, an 18% increase in pulmonary artery blood pressure, and an 8% increase in systemic vascular resistance. In addition, mild chest pain or tightness was reported by 4 subjects. Clinically significant increases in blood pressure were experienced by 3 of the subjects (2 of whom also had chest pain/discomfort). Diagnostic angiogram results revealed that 9 subjects had normal coronary arteries and 1 had insignificant coronary artery disease.

In an additional study with this same drug, migraine patients (n=35) free of cardiovascular disease were subjected to assessments of myocardial perfusion by positron emission tomography while receiving a subcutaneous 1.5 mg dose in the absence of a migraine attack. Reduced coronary vasodilatory reserve (~10%), increased coronary resistance (~20%), and decreased hyperaemic myocardial blood flow (~10%) were noted. The relevance of these findings to the use of the recommended oral dose of this 5-HT<sub>1</sub> agonist is not known.

### **Other Vasospasm-Related Events**

5-HT<sub>1</sub> agonists may cause vasospastic reactions other than coronary artery spasm. Both peripheral vascular ischemia and colonic ischemia with abdominal pain, and bloody diarrhea have been reported with 5-HT<sub>1</sub> agonists.

### **Increase in Blood Pressure**

Significant elevation in blood pressure, including hypertensive crisis, has been reported on rare occasions in patients receiving 5-HT<sub>1</sub> agonists, including eletriptan, with and without a history of hypertension, and at recommended doses.

JAMP Eletriptan tablets are contraindicated in patients with uncontrolled or severe hypertension (see **CONTRAINDICATIONS**).

In clinical pharmacology studies on healthy volunteers oral eletriptan (at single doses of 60 mg or greater) was shown to cause small transient dose-related increases in blood pressure,

predominantly diastolic, consistent with its mechanism of action and with other 5-HT<sub>1B/1D</sub> agonists. The effect was more pronounced in renally impaired and elderly subjects. (see **WARNINGS AND PRECAUTIONS, Renal; ACTION AND CLINICAL PHARMACOLOGY, Renal Insufficiency**) A single patient with hepatic cirrhosis received eletriptan 80 mg and experienced a blood pressure of 220/96 mmHg 5 hours after dosing. The treatment-related event persisted for 7 hours.

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

Cases of life-threatening serotonin syndrome have been reported during combined use of selective serotonin reuptake inhibitors (SSRIs)/serotonin norepinephrine reuptake inhibitors (SNRIs) and triptans. If concomitant treatment with JAMP Eletriptan and SSRIs (e.g., fluoxetine, paroxetine, sertraline) or SNRIs (e.g., venlafaxine) is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases. 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) (see DRUG INTERACTIONS).

### **Dependence/Tolerance**

Although the abuse potential of eletriptan hydrobromide tablets has not been assessed, no abuse of, tolerance to, or withdrawal from, or drug-seeking behavior was observed in patients who received eletriptan hydrobromide tablets in clinical trials or their extensions. The 5-HT<sub>1B/1D</sub> agonists, as a class, have not been associated with drug abuse.

### **Hepatic**

The effects of severe hepatic impairment on eletriptan metabolism were not evaluated. JAMP Eletriptan tablets should not be given to patients with severe hepatic impairment (see **CONTRAINDICATIONS**).

Subjects with mild or moderate hepatic impairments demonstrated an increase in AUC (34%), C<sub>max</sub> (18%) and in half-life. No dose adjustment is necessary in mild to moderate impairment (see **ACTION AND CLINICAL PHARMACOLOGY: Pharmacokinetics, and DOSAGE AND ADMINISTRATION**).

### **Neurologic**

Care should be taken to exclude other potentially serious neurologic conditions before treating headache in patients not previously diagnosed with migraine headache or who experience a headache that is atypical for them. There have been rare reports where patients received 5-HT<sub>1</sub> agonists for severe headaches that were subsequently shown to have been secondary to an evolving neurologic lesion. For newly diagnosed patients or patients presenting with atypical symptoms, the diagnosis of migraine should be reconsidered if no response is seen after the first dose of eletriptan.

**Seizures:** Caution should be observed if eletriptan is to be used in patients with a history of seizures or other risk factors, such as structural brain lesions, which lower the convulsion threshold.



### **Ophthalmologic**

**Corneal Opacities:** Transient corneal opacities were seen in dogs receiving oral eletriptan at 5 mg/kg and above. They were observed during the first week of treatment, but were not present thereafter despite continued treatment. Exposure at the no-effect dose level of 2.5 mg/kg exceeded that achieved in humans at the maximum recommended daily dose.

### **Preclinical Toxicology**

**Binding to Melanin-Containing Tissues:** In rats treated with a single intravenous (3 mg/kg) dose of radiolabelled eletriptan, elimination of radioactivity from the retina was prolonged, suggesting that eletriptan and/or its metabolites may bind to the melanin of the eye. Because there could be accumulation in melanin-rich tissues over time, this raises the possibility that eletriptan could cause toxicity in these tissues after extended use. There were, however, no adverse ophthalmologic changes related to treatment with eletriptan in the 1-year dog toxicity study. Although no systematic monitoring of ophthalmologic function was undertaken in clinical trials, and no specific recommendations for ophthalmologic monitoring are offered, prescribers should be aware of the possibility of long-term ophthalmologic effects.

### **Psychomotor Effect**

Patients should be advised to avoid driving a car or operating hazardous machinery until they are reasonably certain that JAMP Eletriptan does not affect them adversely.

### **Renal**

In patients with mild or moderate renal impairment, a total daily dose of greater than 20 mg should be administered with caution due to elevations in blood pressure in clinical trial database. JAMP Eletriptan is not recommended for patients with severe renal impairment.

In a single-dose PK study, there was no significant change in eletriptan clearance observed in subjects with mild, moderate or severe renal impairment. In some of these patients, an elevation in blood pressure was observed (see **WARNINGS AND PRECAUTIONS, Increase in Blood Pressure; ACTION AND CLINICAL PHARMACOLOGY: Pharmacokinetics, and DOSAGE AND ADMINISTRATION**).

### **Sensitivity/Resistance**

**Hypersensitivity:** Rare hypersensitivity (anaphylaxis/anaphylactoid) reactions have occurred in patients receiving other 5-HT<sub>1</sub> agonists. Such reactions can be life-threatening or fatal. In general, hypersensitivity reactions to drugs are more likely to occur in individuals with a history of sensitivity to multiple allergens. Owing to the possibility of cross-reactive hypersensitivity reactions, JAMP Eletriptan should not be used in patients having a history of hypersensitivity to chemically-related 5-HT<sub>1</sub> receptor agonists. (see **ADVERSE REACTIONS**).

### **Special Populations**

**Pregnant Women:** The safety of eletriptan in pregnant women has not been established. Administration of JAMP Eletriptan tablets should only be considered if the expected benefit to the mother is greater than any possible risk to the fetus.

In reproductive toxicity studies in rats and rabbits, oral administration of eletriptan was associated with developmental toxicity (decreased fetal and pup weights) and an increased

incidence of fetal structural abnormalities).

**Nursing Women:** Caution should be exercised when JAMP Eletriptan tablets are administered to nursing women.

Eletriptan is excreted in human breast milk. In 1 study of 8 women given a single dose of 80 mg, the mean total amount of eletriptan in breast milk over 24 hours in this group was approximately 0.02% of the administered dose. The ratio of eletriptan mean concentration in breast milk to plasma was 1:4, but there was great variability. The resulting eletriptan concentration-time profile was similar to that seen in the plasma over 24 hours, with very low concentrations of drug (mean 1.7 ng/ml) still present in the milk 18-24 hours post-dose. The N-desmethyl active metabolite was not measured in the breast milk.

**Pediatrics (< 18 years of age):** Safety and effectiveness of eletriptan hydrobromide tablets in pediatric patients have not been established; therefore, JAMP Eletriptan is not recommended for use in patients under 18 years of age.

The efficacy of eletriptan hydrobromide tablets (40 mg) in patients 11-17 was not established in a randomized, placebo-controlled trial of 274 adolescent migraineurs, there were no statistically significant differences between treatment groups. The headache response rate at 2 hours was 57% for both eletriptan hydrobromide tablets 40 mg tablets and placebo. Adverse events observed were similar in nature to those reported in clinical trials in adults. JAMP Eletriptan is not recommended for use in patients under 18 years of age.

**Geriatrics (> 65 years of age):** Eletriptan hydrobromide tablet has been given to only 50 patients over the age of 65. Blood pressure was increased to a greater extent in elderly subjects than in young subjects. The pharmacokinetic disposition of eletriptan in the elderly is similar to that seen in younger adults. There is a statistically significant increase in half-life (from about 4.4 hours to 5.7 hours) between elderly (65 to 93 years of age) and younger adult subjects (18 to 45 years of age) (see **ACTION AND CLINICAL PHARMACOLOGY: Special Populations and Conditions**).

Experience of the use of eletriptan hydrobromide tablets in patients aged over 65 years is limited. Therefore the use of JAMP Eletriptan in patients over 65 years is not recommended.

## **ADVERSE REACTIONS**

### **Adverse Drug Reaction Overview**

**Serious cardiac events, including some that have been fatal, have occurred following the use of other 5-HT<sub>1</sub> agonists. These events are extremely rare and most have been reported in patients with risk factors of CAD. Events reported have included coronary artery vasospasm, transient myocardial ischemia, myocardial infarction, ventricular tachycardia, and ventricular fibrillation (see CONTRAINDICATIONS and WARNINGS AND PRECAUTIONS).**

### **Typical 5-HT<sub>1</sub> Agonist Adverse Reactions**

As with other 5-HT<sub>1</sub> agonists, eletriptan hydrobromide tablets have been associated with sensations of heaviness, pressure, tightness or pain which may be intense. These may occur in any part of the body including the chest, throat, neck, jaw and upper limbs.

### **Increases in Blood Pressure**

Significant elevations in systemic blood pressure, including hypertensive crisis, have been reported on rare occasions in patients with and without a history of hypertension treated with other 5-HT<sub>1</sub> agonists. JAMP Eletriptan is contraindicated in patients with uncontrolled hypertension (see **CONTRAINDICATIONS**).

### **Clinical Trial Adverse Drug Reactions**

In the clinical program, 7,483 subjects have received eletriptan hydrobromide tablets and 1,595 have received placebo.

In Phase 2/3 clinical trials for the treatment of migraine, safety data were obtained for 6,954 subjects treated with eletriptan and 1,376 subjects treated with placebo. In the clinical pharmacology program, 529 subjects received eletriptan and 219 received placebo.

Among 5,984 patients who treated a single migraine headache with eletriptan hydrobromide 20, 40 or 80 mg tablets in short-term, placebo-controlled trials, the most common and dose-related adverse events reported with treatment with eletriptan hydrobromide were asthenia (7.2%), nausea (7.8%), dizziness (5.7%) and somnolence (5.2%).

Table 1 lists the most common adverse events that occurred in the subset of 7,131 patients with migraine who received eletriptan doses of 20 mg, 40 mg, 80 mg or placebo in worldwide, placebo-controlled clinical trials. Adverse events that were more frequent in a eletriptan hydrobromide tablets treatment group compared to the placebo group with an incidence greater than 1% are included in Table 1. The events cited reflect experience gained under closely monitored conditions of clinical trials in a highly selected patient population. In actual clinical practice or in other clinical trials, those frequency estimates may not apply, as the conditions of use, reporting behavior, and the kinds of patients treated may differ.

Eletriptan hydrobromide tablets are generally well tolerated. Across all doses, most adverse reactions were mild and transient. The frequency of adverse events in clinical trials did not increase when up to 2 doses of eletriptan hydrobromide tablets were taken within 24 hours. The incidence of adverse events in controlled clinical trials was not affected by gender, age, or race of patients. Adverse event frequencies were also unchanged by concomitant use of drugs commonly taken for migraine prophylaxis, (eg, beta-blockers, calcium channel blockers, tricyclic antidepressants), estrogen replacement therapy and oral contraceptives.

Table 1: Treatment-Emergent Adverse Events by initial oral dose of Eletriptan Hydrobromide Tablets and Placebo Reported by at least 1% Patients with Migraine from Controlled Clinical Trials

	Placebo	20 mg	40 mg	80 mg
Number of Patients	1559	536	2951	2085
Symptoms of Potentially Cardiac Origin				
Chest Sensations*	1.1	0.4	2.2	4.4
Neck/throat/jaw sensations*	0.2	0.2	1.4	2.2
Palpitations	0.9	0.7	1.3	1.8
Upper Limb sensations*	0.1	0.2	0.6	1.1
Neurological				
Dizziness	2.8	2.4	5.1	7.2
Drowsiness	2.8	1.9	4.9	5.9
Head/face sensations*	0.7	1.5	1.2	1.8
Headache	2.4	2.8	2.8	3.5
Hypertonia	0.2	0.9	0.6	1.8
Vertigo	0.5	0.2	0.4	1.8
Digestive				
Abdominal discomfort & pain	0.7	0.9	1.7	2.2
Diarrhea	0.9	1.1	1.1	1.4
Gastrointestinal discomfort & pain	0.8	1.9	1.6	2.3
Hyposalivation	1.5	2.1	3.0	3.7
Nausea	7.8	3.9	6.9	10.4
Vomiting	5.7	0.6	3.0	4.0
Musculoskeletal				
Muscle atrophy, weakness & tiredness	0.5	0.2	0.8	3.0
Muscle pain	0.4	1.1	1.5	2.9
Ear, nose & throat				
Nasal signs & symptoms	0.6	0.9	1.0	1.5
Throat & tonsil symptoms	0.4	1.3	1.4	2.4
Respiratory				
Viral infection	0.8	0.6	1.1	1.3
Non-site specific				
Chills	1.3	0.2	0.8	1.2
Malaise/fatigue	1.9	2.6	4.5	9.4
Sensations	2.1	2.6	3.6	5.6
Sweating	0.6	0.4	1.1	1.6

\*The term “sensations” encompasses adverse events described as pain & discomfort, pressure, heaviness, constriction, tightness, heat/burning sensation, paresthesia, numbness, tingling and strange sensations.

**Other Events Observed in Association with the Administration of Eletriptan Hydrobromide Tablets**

The frequencies of less commonly reported adverse clinical events are listed below by body system in order of decreasing frequency. Because the reports include events observed in open studies, the role of eletriptan hydrobromide tablets in their causation cannot be reliably determined. Furthermore, variability associated with adverse event reporting, the terminology used to describe adverse events, etc., limit the value of the quantitative frequency estimates provided. Event frequencies are calculated as the number of patients reporting an event divided by the total number of patients (N=4,719) exposed to eletriptan hydrobromide tablets. All reported events are included except those already listed in Table 1, those too general to be informative, and those not reasonably associated with the use of the drug. Frequent adverse events are those occurring in at least 1/100 patients, infrequent adverse events are those occurring in 1/100 to 1/1,000 patients, and rare adverse events are those occurring in fewer than 1/1,000 patients.

**General:** Frequent: back pain, chills and pain. Infrequent: face edema and malaise. Rare:

abdomen enlarged, abscess, accidental injury, allergic reaction, fever, flu syndrome, halitosis, hernia, hypothermia, lab test abnormal, moniliasis, rheumatoid arthritis and shock.

**Cardiovascular:** Frequent: palpitation. Infrequent: hypertension, migraine, peripheral vascular disorder and tachycardia. Rare: angina pectoris, arrhythmia, atrial fibrillation, AV block, bradycardia, hypotension, syncope, thrombophlebitis, cerebrovascular disorder, vasospasm and ventricular arrhythmia.

**Digestive:** Infrequent: anorexia, constipation, diarrhea, eructation, esophagitis, flatulence, gastritis, gastrointestinal disorder, glossitis, increased salivation and liver function tests abnormal. Rare: gingivitis, hematemesis, increased appetite, rectal disorder, stomatitis, tongue disorder, tongue edema and tooth disorder.

**Endocrine:** Rare: goiter, thyroid adenoma and thyroiditis.

**Hemic and Lymphatic:** Rare: anemia, cyanosis, leukopenia, lymphadenopathy, monocytosis and purpura.

**Metabolic:** Infrequent: creatine phosphokinase increased, edema, peripheral edema and thirst. Rare: alkaline phosphatase increased, bilirubinemia, hyperglycemia, weight gain and weight loss.

**Musculoskeletal:** Infrequent: arthralgia, arthritis, arthrosis, bone pain, myalgia and myasthenia. Rare: bone neoplasm, joint disorder, myopathy and tenosynovitis.

**Neurological:** Frequent: hypertonia, hypesthesia and vertigo. Infrequent: abnormal dreams, agitation, anxiety, apathy, ataxia, confusion, depersonalization, depression, emotional lability, euphoria, hyperesthesia, hyperkinesia, incoordination, insomnia, nervousness, speech disorder, stupor, thinking abnormal and tremor. Rare: abnormal gait, amnesia, aphasia, catatonic reaction, dementia, diplopia, dystonia, hallucinations, hemiplegia, hyperalgesia, hypokinesia, hysteria, manic reaction, neuropathy, neurosis, oculogyric crisis, paralysis, psychotic depression, sleep disorder and twitching.

**Respiratory:** Frequent: pharyngitis. Infrequent: asthma, dyspnea, respiratory disorder, respiratory tract infection, rhinitis, voice alteration and yawn. Rare: bronchitis, choking sensation, cough increased, epistaxis, hiccup, hyperventilation, laryngitis, sinusitis and sputum increased.

**Skin and Appendages:** Frequent: sweating. Infrequent: pruritus, rash and skin disorder. Rare: alopecia, dry skin, eczema, exfoliative dermatitis, maculopapular rash, psoriasis, skin discolouration, skin hypertrophy and urticaria.

**Special Senses:** Infrequent: abnormal vision, conjunctivitis, ear pain, eye pain, lacrimation disorder, photophobia, taste perversion and tinnitus. Rare: abnormality of accommodation, dry eyes, ear disorder, eye hemorrhage, otitis media, parosmia and ptosis.

**Urogenital:** Infrequent: impotence, polyuria, urinary frequency and urinary tract disorder. Rare: breast pain, kidney pain, leukorrhea, menorrhagia, menstrual disorder and vaginitis.

## **Post-Market Adverse Drug Reactions**

In postmarketing experience, the following additional undesirable effects have been reported:

***Gastrointestinal Disorders:*** Ischaemic colitis

***Nervous System Disorders:*** Syncope

***Immune System Disorders:*** Allergic reaction, some of which may be serious, including angioedema.

***Skin and Subcutaneous Tissue Disorders:*** Pruritus, rash, urticaria.

***Cardiac Disorders:*** Myocardial ischemia or infarction, arteriospasm coronary (see **WARNINGS AND PRECAUTIONS**, Cardiac)

## **DRUG INTERACTIONS**

### **Effects of Other Drugs on Eletriptan**

***CYP3A4 Inhibitors:*** In vitro studies have shown that eletriptan is metabolized by the CYP3A4 enzyme. A clinical study demonstrated about a 3-fold increase in  $C_{max}$  and about a 6-fold increase in the AUC of eletriptan when combined with ketoconazole. The half-life increased from 5 hours to 8 hours and the  $T_{max}$  increased from 2.8 hours to 5.4 hours. Another clinical study demonstrated about a 2-fold increase in  $C_{max}$  and about a 4-fold increase in AUC when erythromycin was co-administered with eletriptan. It has also been shown that co-administration of verapamil and eletriptan yields about a 2-fold increase in  $C_{max}$  and about a 3-fold increase in AUC of eletriptan, and that co-administration of fluconazole and eletriptan yields about a 1.4-fold increase in  $C_{max}$  and about a 2-fold increase in AUC of eletriptan.

JAMP Eletriptan is contraindicated within 72 hours of treatment with the following potent CYP3A4 inhibitors: ketoconazole, itraconazole, nefazodone, troleandomycin, clarithromycin, ritonavir and nelfinavir. JAMP Eletriptan is contraindicated within 72 hours with drugs that have demonstrated potent CYP3A4 inhibition and have this potent effect described in the **CONTRAINDICATIONS** or **WARNINGS AND PRECAUTIONS** sections of their Product Monograph (see **CONTRAINDICATIONS, WARNINGS AND PRECAUTIONS** and **DOSAGE AND ADMINISTRATION**).

***Ketoconazole:*** A clinical study demonstrated about a 3-fold increase in  $C_{max}$  and about a 6-fold increase in the AUC of eletriptan when co-administered with ketoconazole. The half-life of eletriptan increased from 5 hours to 8 hours and the  $T_{max}$  increased from 2.8 hours to 5.4 hours (see **ACTION AND CLINICAL PHARMACOLOGY: Pharmacokinetics**).

***Erythromycin:*** A clinical study demonstrated about a 2-fold increase in eletriptan  $C_{max}$  and about a 4-fold increase in AUC when erythromycin was co-administered with eletriptan. This increased exposure was associated with an increase in eletriptan  $t_{1/2}$  from 4.6 hours to 7.1 hours (see **ACTION AND CLINICAL PHARMACOLOGY: Pharmacokinetics**).

***Fluconazole:*** Co-administration of fluconazole and eletriptan yields about a 1.4-fold increase in  $C_{max}$  and about a 2-fold increase in AUC of eletriptan.

***Verapamil:*** It has also been shown that co-administration of verapamil and eletriptan yields about a 2-fold increase in  $C_{max}$  and about a 3-fold increase in AUC of eletriptan.

**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 [DHE] or methysergide) and JAMP Eletriptan tablets within 24 hours is not recommended (see **ACTION AND CLINICAL PHARMACOLOGY: Pharmacokinetics** and **CONTRAINDICATIONS**).

**Other 5-HT<sub>1</sub> Agonists:** Concomitant use of other 5-HT<sub>1</sub> agonists within 24 hours of JAMP Eletriptan treatment is not recommended (see **CONTRAINDICATIONS**).

***Selective Serotonin Reuptake Inhibitors (SSRIs)/Serotonin Norepinephrine Reuptake Inhibitors (SNRIs):***

Cases of life-threatening serotonin syndrome have been reported during combined use of selective serotonin reuptake inhibitors (SSRIs) or serotonin norepinephrine reuptake inhibitors (SNRIs) and triptans (see **WARNINGS AND PRECAUTIONS**).

**Propranolol:** The C<sub>max</sub> and AUC of eletriptan were increased by 10% and 33%, respectively, following an 80 mg BID dose of propranolol administered for 7 days. No interactive increases in blood pressure were observed. No dose adjustment is necessary for patients also taking propranolol.

**MAO Inhibitors:** Eletriptan is not a substrate for monoamine oxidase (MAO) enzymes. Therefore there is no expectation of an interaction between JAMP Eletriptan and MAO inhibitors.

**The effect of eletriptan on other drugs**

The effect of eletriptan on enzymes other than cytochrome P-450 has not been investigated. In vitro human liver microsome studies suggest that eletriptan has little potential to inhibit CYP1A2, 2C9, 2E1 and 3A4 at concentrations up to 100 μM. While eletriptan has an effect on CYP2D6 at high concentration (IC<sub>50</sub> of about 41 μM), this effect should not interfere with metabolism of other drugs when eletriptan is used at recommended doses. There is no in vitro or in vivo evidence that clinical doses of eletriptan will induce drug metabolizing enzymes. Therefore, eletriptan is unlikely to cause clinically important drug interactions mediated by these enzymes.

**Drug-Food Interactions**

The AUC and C<sub>max</sub> of eletriptan are increased by approximately 20 to 30% following oral administration with a high fat meal.

**Drug-Herb Interactions**

Interactions with herbal products have not been established.

**Drug-Laboratory Interactions**

Interactions with laboratory tests have not been established.

**DOSAGE AND ADMINISTRATION**

**Dosing Considerations**

JAMP Eletriptan (eletriptan hydrobromide) tablets should be taken as early as possible after the onset of a migraine attack, but are also effective if taken at a later stage. JAMP Eletriptan tablets should not be used prophylactically.

### **Recommended Dose and Dosage Adjustment**

#### **Adult (18-65 years of age):**

In controlled clinical trials, single doses of 20 mg and 40 mg were effective for the acute treatment of migraine in adults. A greater proportion of patients had a response following a 40 mg dose than following a 20 mg dose. Individuals may vary in response to doses of JAMP Eletriptan tablets.

When initiating treatment with JAMP Eletriptan, a starting dose of 20 mg or 40 mg may be considered. Patients who do not obtain satisfactory efficacy after an initial trial of 20 mg may be effectively treated with 40 mg in subsequent migraine attacks. The choice of dose should therefore be made on an individual basis, according to the clinical status of the patient and weighing the possible risk/benefit of the 40 mg dose. A minimal effective dose should be used.

If after an initial dose of 20 mg, headache improves but then returns a repeat dose of 20 mg may be beneficial and should be taken at least 2 hours after the initial dose. If an initial dose of 40 mg is taken, a second dose is not recommended.

If the initial dose is ineffective, controlled clinical trials have not shown a benefit of a second dose to treat the same attack.

The maximum daily dose should not exceed 40 mg.

The safety of treating an average of more than 3 headaches in a 30-day period has not been established.

#### **Patients Receiving Potent CYP3A4 Inhibitors**

JAMP Eletriptan tablets are contraindicated within 72 hours of treatment with the following potent CYP3A4 inhibitors, due to potential for significant increases in eletriptan hydrobromide blood levels: ketoconazole, itraconazole, clarithromycin, troleandomycin, ritonavir, nelfinavir and nefazodone. JAMP Eletriptan is also contraindicated within 72 hours with any other drugs that have demonstrated potent CYP3A4 inhibition and have this potent effect described in the **CONTRAINDICATIONS** or **WARNINGS AND PRECAUTIONS** sections of their labeling (see **WARNINGS AND PRECAUTIONS, DRUG INTERACTIONS** and **CONTRAINDICATIONS**).

#### **Patients with Hepatic Impairment**

No dose adjustment is required in patients with mild or moderate hepatic impairment. As eletriptan hydrobromide has not been studied in patients with severe hepatic impairment, it is contraindicated in these patients (see **ACTION AND CLINICAL PHARMACOLOGY** and **CONTRAINDICATIONS**).

#### **Patients with Renal Impairment**

In some patients with renal impairment, an elevation in blood pressure was observed. A total



daily dose of greater than 20 mg should be administered with caution. JAMP Eletriptan is not recommended for patients with severe renal impairment (see **ACTION AND CLINICAL PHARMACOLOGY** and **WARNINGS AND PRECAUTIONS**).

### **Administration**

JAMP Eletriptan tablets should be swallowed whole with water.

### **OVERDOSAGE**

**Symptoms:** No significant overdoses in clinical trials have been reported. Twenty-one (21) subjects have received single doses of 120 mg in Phase 1 trials and 427 in Phase 2/3 trials without significant adverse effects. Based on the pharmacology of 5-HT<sub>1</sub> agonists, hypertension or other more serious cardiovascular symptoms could occur on overdose.

**Treatment:** In case of overdose, standard supportive measures should be adopted. The elimination half-life of eletriptan is about 4 hours (see **ACTION AND CLINICAL PHARMACOLOGY**), and therefore monitoring of patients after overdose with eletriptan should continue for at least 20 hours, or longer should symptoms or signs persist.

There is no specific antidote to eletriptan. In cases of severe intoxication, intensive care procedures are recommended, including establishing and maintaining a patent airway, ensuring adequate oxygenation and ventilation, and monitoring and support of the cardiovascular system.

It is unknown what effect hemodialysis or peritoneal dialysis has on the serum concentration of eletriptan.

For management of a suspected drug overdose, contact your regional Poison Control Centre immediately.

### **ACTION AND CLINICAL PHARMACOLOGY**

#### **Mechanism of Action**

Eletriptan binds with high affinity to 5-HT<sub>1B</sub>, 5-HT<sub>1D</sub> and 5-HT<sub>1F</sub> receptors, has modest affinity for 5-HT<sub>1A</sub>, 5-HT<sub>1E</sub>, 5-HT<sub>2B</sub> and 5-HT<sub>7</sub> receptors, and little or no affinity for 5-HT<sub>2A</sub>, 5-HT<sub>2C</sub>, 5-HT<sub>3</sub>, 5-HT<sub>4</sub>, 5-HT<sub>5A</sub> and 5-HT<sub>6</sub> receptors.

Eletriptan has no significant affinity or pharmacological activity at adrenergic alpha<sub>1</sub>, alpha<sub>2</sub>, or beta; dopaminergic D<sub>1</sub> or D<sub>2</sub>; muscarinic; or opioid receptors.

Two theories have been proposed to explain the efficacy of 5-HT receptor agonists in migraine. One theory suggests that activation of 5-HT<sub>1</sub> receptors located on intracranial blood vessels, including those on the arteriovenous anastomoses, leads to vasoconstriction, which is correlated with the relief of migraine headache. The other hypothesis suggests that activation of 5-HT<sub>1</sub> receptors on sensory nerve endings in the trigeminal system results in the inhibition of pro-inflammatory neuropeptide release.

In the anesthetized dog, eletriptan has been shown to reduce carotid arterial blood flow, with

only a small increase in arterial blood pressure at high doses. While the effect on blood flow was selective for the carotid arterial bed, decreases in coronary artery diameter were observed. Eletriptan has also been shown to inhibit trigeminal nerve activity in the rat.

### **Pharmacokinetics**

**Absorption:** Eletriptan is rapidly and well absorbed after oral administration with peak plasma levels occurring approximately 1.5 hours after dosing to healthy subjects. In patients with moderate to severe migraine, the median  $T_{max}$  is 2.0 hours. The mean absolute bioavailability of eletriptan is approximately 50%. The oral pharmacokinetics are slightly more than dose proportional over the clinical dose range. The AUC and  $C_{max}$  of eletriptan are increased by approximately 20 to 30% following oral administration with a high fat meal.

**Distribution:** The volume of distribution following IV administration is 138L. Plasma protein binding is moderate and approximately 85%.

**Metabolism:** The N-demethylated metabolite of eletriptan is the only known active metabolite. This metabolite causes vasoconstriction similar to eletriptan in animal models. Though the half-life of the metabolite is estimated to be about 13 hours, the plasma concentration of the N-demethylated metabolite is 10-20% of that of parent drug and is unlikely to contribute significantly to the overall effect of the parent compound. In vitro studies indicate that eletriptan is primarily metabolized by cytochrome P-450 enzyme CYP3A4 (see **CONTRAINDICATIONS, WARNINGS AND PRECAUTIONS** and **DRUG INTERACTIONS**).

**Excretion:** The elimination half-life of eletriptan is approximately 4 hours. Mean-renal clearance ( $CL_R$ ) following oral administration is approximately 3.9 L/h. Non-renal clearance accounts for about 90% of the total clearance. The pharmacokinetic parameters while fasting are summarized in Table 2.

Table 2: Single Dose Pharmacokinetics of Eletriptan (N=18 patients, 9 Males and 9 Females)

Pharmacokinetic Parameter	Means <sup>a</sup>		
	20 mg	40 mg	80 mg
$C_{max}$ (ng/mL)	37	82	188
AUC (ng·h/mL)	240	573	1218
AUC <sub>t</sub> (ng·h/mL)	235	563	1198
$T_{max}$ (h)	1.5	1.8	2.1
$K_{el}$ (/h)	0.194	0.181	0.183
$t_{1/2}$ (h)	3.6	3.8	3.8

<sup>a</sup> Means are geometric for AUC, AUC<sub>t</sub> and  $C_{max}$  arithmetic for  $T_{max}$  and  $k_{el}$ , and harmonic for  $t_{1/2}$ .

### **Special Populations and Conditions**

**Pediatrics:** The volume of distribution following oral administration is lower in children <12 years of age resulting in higher plasma concentrations than would be predicted following the same dose in adults. JAMP Eletriptan is not recommended for use in patients under 18 years of age (see **WARNINGS AND PRECAUTIONS: Special Populations**).

**Geriatrics:** Eletriptan hydrobromide has been given to only 50 patients over the age of 65. There is a statistically significant increase in half-life (from about 4.4 hours to 5.7 hours) in the elderly compared to younger adult subjects based on population pharmacokinetic analysis (see **WARNINGS AND PRECAUTIONS: Special Populations**).

Blood pressure was increased to a greater extent in elderly subjects than in young subjects.

**Gender:** The pharmacokinetics of eletriptan are unaffected by gender.

**Race:** A comparison of the pharmacokinetic studies conducted in western countries and those conducted in Japan have indicated an approximate 35% reduction in the exposure of eletriptan in Japanese male volunteers compared to western males.

Population pharmacokinetic analysis of 2 clinical studies indicates no evidence of pharmacokinetic differences between Caucasians and non-Caucasian patients.

**Menstrual Cycle:** In a study of 16 healthy females, the pharmacokinetic profile of eletriptan remained consistent throughout the phases of the menstrual cycle.

**Hepatic Insufficiency:** The effects of severe hepatic impairment on eletriptan metabolism have not been evaluated. Subjects with mild or moderate hepatic impairment demonstrated an increase of eletriptan in AUC (34%),  $C_{max}$  (18%) and half-life (see **CONTRAINDICATIONS, WARNINGS AND PRECAUTIONS** and **DOSAGE AND ADMINISTRATION** for severe hepatic impairment).

**Renal Insufficiency:** In a clinical pharmacology study, a single oral 80 mg dose was administered to normal (n=6) subjects and to subjects with severe (n=5), moderate (n=5) and mild (n=6) degrees of renal impairment. There was no significant change in clearance observed in subjects with mild, moderate or severe renal impairment, though blood pressure elevations were observed in this population. The maximum blood pressure increase from baseline in subjects with renal impairment ranged from 14 to 17 mmHg for systolic blood pressure and 14 to 21 mmHg for diastolic blood pressure and was greater than that observed in the normal subjects (3 – 4 mmHg) (see **WARNINGS AND PRECAUTIONS** and **DOSAGE AND ADMINISTRATION**).

### **STORAGE AND STABILITY**

Store at room temperature (15-30°C). Keep in closed container and protect from moisture.

## DOSAGE FORMS, COMPOSITION AND PACKAGING

Each JAMP Eletriptan tablet for oral administration contains 24.23 or 48.46 mg of eletriptan hydrobromide equivalent to 20 or 40 mg eletriptan, respectively. Each tablet also contains the inactive ingredients: croscarmellose sodium, FD & C Yellow No 6, FCF Aluminum lake, lactose monohydrate, microcrystalline cellulose, magnesium stearate, titanium dioxide, Polyvinyl alcohol, Macrogol and talc.

JAMP Eletriptan (eletriptan hydrobromide) tablets of 20 and 40 mg eletriptan (base) as the hydrobromide. JAMP Eletriptan tablets are orange, round, convex shaped, film coated tablets and are supplied in cartons containing one blister pack of 6 tablets.

Strength	Tablet Identification
20 mg	Orange, round, convex shaped, film-coated tablet, plain on one side other side embossed with "20".
40 mg	Orange, round, convex shaped, film-coated tablet, plain on one side other side embossed with "40".

## PART II: SCIENTIFIC INFORMATION

### PHARMACEUTICAL INFORMATION

#### Drug Substance

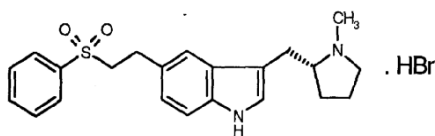
Proper name: eletriptan hydrobromide

Chemical name: 3-[[*(R)*-1-methyl-2-pyrrolidinyl]methyl]-5-[2-(phenylsulfonyl)ethyl]-indole monohydrobromide

Molecular formula:  $C_{22}H_{26}N_2O_2S \cdot HBr$

Molecular weight: 463.43 g/mol

Structural formula:



Physicochemical properties: Eletriptan is a white to pale-coloured powder that is slightly soluble in water.

## CLINICAL TRIALS

### Comparative Bioavailability Study

A double-blind, balanced, randomized, two-treatment, two-sequence, two-period, single-dose, crossover oral bioequivalence study comparing JAMP ELETRIPTAN 40 mg tablets of JAMP Pharma Corporation, Canada with RELPAX<sup>®</sup> 40 mg tablets of Pfizer Canada Inc., Canada, was completed in 24 healthy adult human subjects under fasting conditions. The summary data are tabulated below:

SUMMARY TABLE OF COMPARATIVE BIOAVAILABILITY DATA

Eletriptan (1 x 40 mg) Geometric Mean Arithmetic Mean (CV %)				
Pharmacokinetic Parameter	Test*	Reference <sup>†</sup>	% Ratio of Geometric Means	90% Confidence Interval
AUC <sub>T</sub> (hr. ng/mL)	952.29 989.87 (28.49)	889.16 922.13 (27.58)	107.1	99.8 – 114.9
AUC <sub>I</sub> (hr. ng/mL)	1023.59 1065.15 (29.38)	951.79 991.18 (29.42)	107.5	100.4 - 115.1
C <sub>max</sub> (ng/mL)	125.10 129.21 (25.45)	124.59 129.94 (30.20)	100.4	90.8 - 111.1
T <sub>max</sub> <sup>§</sup> (h)	1.50 (0.50 - 4.00)	1.00 (0.55 - 5.00)		
T <sub>1/2</sub> <sup>ε</sup> (h)	6.05 (25.29)	5.96 (24.51)		

\*JAMP ELETRIPTAN 40 mg tablets of JAMP Pharma Corporation, Canada.  
<sup>†</sup> Pr RELPAX<sup>®</sup> 40 mg tablets of Pfizer Canada Inc., Canada.  
<sup>§</sup> Expressed as the median (range) only.  
<sup>ε</sup> Expressed as the arithmetic mean (CV%) only.

The efficacy of eletriptan hydrobromide tablets in the acute treatment of migraine was evaluated in 7 double-blind, placebo-controlled studies in adults (n=5,992). All 7 studies used 40 mg. Six studies evaluated an 80 mg dose and 2 studies included a 20 mg dose.

In all 7 studies, randomized adult patients treated their headaches as outpatients. Patients treated in these studies were predominantly female (85%) and Caucasian (94%) with a mean age of 40 years (range 18-78). In all studies, patients were instructed to treat a moderate to severe headache. Headache response, defined as a reduction in headache severity from moderate or severe pain to mild or no pain, was assessed up to 2 hours after dosing. Secondary endpoints included pain-free response and associated symptoms (nausea, vomiting, photophobia and phonophobia).

Maintenance of response was assessed for up to 24 hours post-dose. A second dose of eletriptan hydrobromide tablets or other medication (rescue medication) was allowed 2 to 24 hours after the initial treatment for both persistent and recurrent headaches. The incidence and time to use of these additional treatments were also recorded.

In all studies, the percentage of patients achieving headache response 2 hours after treatment was significantly greater among patients receiving eletriptan hydrobromide tablets at all doses compared to those who received placebo. Headache response occurred as early as 30 minutes following dosing.

The 2-hour response rates from these controlled clinical studies are summarized in Table 3.

Table 3: Percentage of Adult Patients with Headache Response (Mild or No Headache) 2 Hours Following Treatment, from 7 Controlled Clinical Studies in Adults

	Placebo	Eletriptan hydrobromide tablets 20 mg	Eletriptan hydrobromide tablets 40 mg	Eletriptan hydrobromide tablets 80 mg
Study 160-314	23.8% (n=126)	54.3%* (n=129)	65.0%* (n=117)	77.1%* (n=118)
Study 160-305	19.0% (n=232)	NA	61.6%* (n=430)	64.6%* (n=446)
Study 160-102	21.7% (n=276)	47.3%* (n=273)	61.9%* (n=281)	58.6%* (n=290)
Study 160-104	39.5% (n=86)	NA	62.3%* (n=175)	70.0%* (n=170)
Study 160-307	20.6% (n=102)	NA	53.9%* (n=206)	67.9%* (n=209)
Study 160-318	31.3% (n=80)	NA	63.9%* (n=169)	66.9%* (n=160)
Study 160-103	29.5% (n=122)	NA	57.5%* (n=492)	NA
* NA	p value < 0.05 vs placebo Not Applicable			

Comparisons of drug performance based upon results obtained in different clinical trials are never reliable. Because studies are conducted at different times, with different samples of patients, by different investigators, employing different criteria and/or different interpretations of the same criteria, under different conditions (dose, dosing regimen, etc.), quantitative estimates of treatment response and the timing of response may be expected to vary considerably from study to study.

The efficacy of eletriptan hydrobromide tablets was unaffected by the duration of attack; gender of the patient; relationship to menses; or concomitant use of estrogen replacement therapy/oral contraceptives, or frequently used migraine prophylactic drugs.

The proportion of patients achieving pain-free status (decrease in pain from moderate to severe at baseline to absence of pain) at 2 hours was statistically significant compared to placebo for patients receiving eletriptan hydrobromide tablets at doses of either 20 or 40 mg. For patients with migraine-associated photophobia, phonophobia, and nausea, at baseline, there was a decreased incidence of these symptoms following administration of eletriptan hydrobromide tablets as compared to placebo.

Data from the placebo-controlled studies (160-102, 160-104, 160-305, 160-307, 160-314 and 160-318) showed that patients receiving eletriptan hydrobromide tablets 20 mg, 40 mg and 80 mg, who did not experience recurrence of headache between 2 and 24 hours post-dosing was 72%, 77% and 79%, respectively.

## **DETAILED PHARMACOLOGY**

### **In Vitro Studies**

In radioligand-binding studies, eletriptan has been shown to have high affinity for the human 5-HT<sub>1B</sub> (pK<sub>i</sub>s of 8.00), 5-HT<sub>1D</sub> (pK<sub>i</sub>s 8.4) and 5-HT<sub>1F</sub> (pK<sub>i</sub>s 7.44) receptors. Eletriptan has a 4-8 fold higher affinity for the human 5-HT<sub>1D</sub> receptors with similar affinity for the 5-HT<sub>1F</sub> receptor.

In functional studies, eletriptan is a potent partial agonist at the 5-HT<sub>1D-like</sub> receptor mediating vasoconstriction in the dog isolated vein and basilar artery. Eletriptan is a potent constrictor of the basilar artery (pEC<sub>50</sub> 7.16); it also demonstrated a 3-fold selectivity in constricting the basilar artery. The constrictor response of eletriptan was antagonized by the selective 5-HT<sub>1B/1D</sub> antagonist, GR 125, 743 at similar potency. Eletriptan contracted the human isolated cerebral (middle meningeal) artery (pEC<sub>50</sub> 7.6), however was significantly less potent in contracting the human isolated coronary artery (pEC<sub>50</sub> 5.60).

### **Animal Studies**

As anticipated from the above effects, eletriptan displays potent 5-HT<sub>1D-like/1B</sub> agonist activity in vivo with selectivity for carotid as opposed to coronary and femoral vascular beds. Following IV 1 to 1000 µg/kg administration to the anesthetized dog, eletriptan caused dose-related decreases in carotid artery blood flow with a mean ED<sub>50</sub> of 12 µg/kg IV (maximum reduction of 44% at 1000 µg/kg IV). In this preparation, eletriptan at doses of 1 to 1000 µg/kg IV has no-effect on coronary artery blood flow (mean ED<sub>50</sub> 62.8 µg/kg IV), it has modest selectivity for carotid over coronary blood vessels. Similarly, eletriptan does not affect femoral artery blood flow at doses which cause significant falls in carotid artery blood flow.

Eletriptan did not cause any significant change in heart rate at the doses studied, and only at the top dose of 1000 µg/kg IV did it induce a modest (13.3 mmHg) increase in blood pressure.

### **Hemodynamic Effects**

Consistent with the high affinity of eletriptan for 5-HT<sub>1D</sub> and 5-HT<sub>1F</sub> receptors, studies in the anesthetized rat have demonstrated that eletriptan reduces neurogenic inflammation in the dura mater and, therefore, may prevent an effect which may give rise to the pain and symptoms experienced by migraineurs. In the rat, eletriptan at doses of 100 to 300 µg/kg IV, but not 30 µg/kg IV, significantly inhibits the plasma protein extravasation (PPE) induced in the dura mater by electrical stimulation of the trigeminal ganglion. In addition, eletriptan (100 µg/kg IV) reverses an ongoing PPE in the dura mater.

In anesthetized and conscious dogs, eletriptan is hemodynamically bland at doses which effectively reduce carotid artery blood flow. At substantially higher doses (eg, 1000 µg/kg IV bolus injection, 750 µg/kg over 15 min IV infusion and 1.5 mg/kg PO), eletriptan increases systolic and diastolic blood pressures, heart rate, cardiac output and dP/dt max. Overall, eletriptan produces little or no change in a number of ECG parameters measured, although some



small changes in T-wave height are observed in some animals after IV but not PO administration. The opposite effects - decreases in mean arterial blood pressure, heart rate, left ventricular pressure and cardiac contractility - are observed in the anesthetized cat after IV administration of 1000 µg/kg eletriptan. This most probably reflects a species variation in response to this class of compound.

In the dog, IV-infused glyceryl trinitrate (GTN) (3 µg/kg/min for 10 min) effectively reverses the coronary artery constriction induced by the IV infusion of a high dose (20 µg/kg/min for 10 min) of eletriptan. Thus, GTN appears to be a suitable antidote should coronary artery constriction be unexpectedly or inadvertently associated with eletriptan exposure.

Eletriptan is well tolerated by mice (30 mg/kg PO and 10 mg/kg IV) and rats (30 mg/kg PO). Moreover, in a range of general pharmacological studies, eletriptan, at doses up to and including 10 mg/kg PO and 1 mg/kg IV, and concentrations of 10 µM for in vitro experiments, did not produce any sedative activity, interaction with alcohol or pentobarbitone, or affect somatic function. Eletriptan did not block beta-adrenoreceptors or cholinergic and serotonergic, or display ganglionic blocking activity.

Oral absorption of eletriptan is rapid and high in all species. Volume of distribution in rodents and dog is higher than in man, probably reflecting the higher plasma protein binding in man. Tissue distribution of drug-related radioactivity in rat is as expected for a moderately lipophilic base. In all species studied, clearance of eletriptan is via the same primary pathways of oxidative metabolism and no human-specific metabolites have been identified. In all species, including man, the majority of the dose is excreted within 48 hours, with both feces and urine being important routes of excretion. Plasma metabolite profiles are similar in animals and man with unchanged eletriptan a major component in all species.

## TOXICOLOGY

### Acute Toxicity

Single Dose Studies in Mice and Rats			
Route	Species & Strains	No. of Animals/Sex	Minimum Lethal Dose - mg/kg
IV	Swiss CD-1 Mice	5/dose	12.5-20
IV	Sprague-Dawley CD Rats	5/dose except 12.5 mg/kg where there were 2M	12.5-20
oral	CD-1 Mice	2-5/dose	100-100
oral	Sprague-Dawley Rats	2-5/dose	100-100

### Comments

In the intravenous study, 20 and 30 mg/kg in mice produced mortality in 1/10 and 2/4 animals, respectively, while the dose of 20 mg/kg was lethal to the 2 treated rats. No mortality was observed at other doses and there were no findings at necropsy.

In the oral study, an oral dose of 100 mg/kg was well tolerated by both mice and rats; there were no deaths. An oral dose of 1000 mg/kg was lethal to all the animals of both species. Death occurred within 7 minutes of dosing in mice and between 25 and 100 minutes in rats, and was preceded by a wide range of severe clinical signs, including convulsions, dyspnea and tremors in mice and dyspnea, prostration, salivation, mydriasis and tremors in rats. The only necropsy findings were gastric hemorrhage found in 3/4 rats treated with 1000 mg/kg, associated with a focus of necrosis in 1 of them.

### **Long-Term Toxicity**

Repeated-dose studies in rats and mice produced clinical signs consistent with those seen in the single-dose studies and isolated cases of delayed death at doses of and above 200 mg/kg. Moderate adverse effects were seen at 100 mg/kg (reduction in body weight gain). From 25 mg/kg, eletriptan produced liver weight increase which was at higher doses associated with centrilobular hypertrophy. A thyroid follicular hypertrophy was seen from 5 mg/kg upwards. No adverse effects were seen in rats treated with 50 mg/kg for 6 months. The plasma exposure at this dose was at least 6.3-fold that seen at the human maximum single dose of 80 mg.

Many drugs, including 5-HT<sub>1</sub> agonists bind reversibly at melanin-rich sites in pigmented rats, including the retina of the eye. In whole body autoradiography (WBA) studies, residual radioactivity was found in the retina of rats 24 hours after single intravenous administration of radiolabelled eletriptan (3 mg/kg), demonstrating an affinity of eletriptan and/or its metabolites to melanin.

Eletriptan did not cause mortality in dogs. Typical clinical signs were incoordination of hind limbs, hyperventilation, hyperthermia and barking, indicative, as in rodents, of a central effect of eletriptan. Transient, diffuse or focal, mostly unilateral corneal opacities were observed during the first days of studies lasting up to 1 month, but not in the subsequent 6- and 12-month studies. Exposure at the no-effect dose level of 2.5 mg/kg was approximately equal to that achieved in humans at the maximum recommended daily dose. The treatment produced dose-related increases in systolic blood pressure, which returned to near normal values over the course of the chronic studies, and heart rate increases seen throughout the treatment period.

A minimal to mild myocardial fibrosis was diagnosed histologically in 2 dogs at 5 mg/kg after 1 month and in 1 dog at 7.5 mg after 2 weeks, but was not observed in the 6- and 12-month studies. Analysis of ECGs showed inversion of negative T-waves to a more normal positive morphology in a number of studies including the 6-month study, where control dogs were also affected. In the 12-month study, increase in the height of the T-wave was recorded. In the 6- and 12-month studies, dosing was halved during the first week to avoid the cardiovascular changes seen in the 1-month study. In the 6-month study, 1/8 dogs each at 2.5 and 5 mg/kg had gastric ulceration. This was felt to be the result of high local concentrations of eletriptan released from the capsule formulation of dry powder. No mucosal changes were seen in the subsequent 12-month study when the tablet (clinical) formulation was used.

A no-effect dose level was established at 4 mg/kg, approximately 4.6 times the human exposure at the maximum single dose of 80 mg.

**Carcinogenicity:** Lifetime carcinogenicity studies, 104 weeks in duration, were carried out in mice and rats by administering eletriptan in the diet at doses of up to 400 mg/kg/day. In rats, the incidence of testicular interstitial cell adenomas was increased at the high dose of 75 mg/kg/day. The estimated exposure (AUC) to parent drug at that dose was approximately 6 times that achieved in humans receiving the maximum recommended daily dose (MRDD) of 80 mg, and at the no-effect dose of 15 mg/kg/day it was approximately 2 times the human exposure at the MRDD. In mice, the incidence of hepatocellular adenomas was increased at the high dose of 400 mg/kg/day. The exposure to parent drug (AUC) at that dose was approximately 18 times that achieved in humans receiving the MRDD, and the AUC at the no-effect dose of 90 mg/kg/day was approximately 7 times the human exposure at the MRDD.

**Mutagenicity:** Eletriptan was not mutagenic in bacterial or mammalian cell assays in vitro, testing negative in the Ames reverse mutation test and the hypoxanthine-guanine phosphoribosyl transferase (HGPRT) mutation test in Chinese hamster ovary cells. It was not clastogenic in 2 in vivo mouse micronucleus assays. Results were equivocal in in vitro human lymphocyte clastogenicity tests, in which the incidence of polyploidy was increased in the absence of metabolic activation (-S9 conditions), but not in the presence of metabolic activation.

### **Reproduction /Sexual Function**

Effects on fetal and pup weights were observed at doses that were, on a mg/m<sup>2</sup> basis, 6 to 12 times greater than the clinical MRDD of 80 mg. The increase in structural alterations occurred in the rat and rabbit at doses that, on a mg/m<sup>2</sup> basis, were 12 times greater than (rat) and approximately equal to (rabbit) the MRDD.

When pregnant rats were administered eletriptan during the period of organogenesis at doses of 10, 30 or 100 mg/kg/day, fetal weights were decreased and the incidences of vertebral and sternbral variations were increased at 100 mg/kg/day (approximately 12 times the MRDD on a mg/m<sup>2</sup> basis). The 100 mg/kg dose was also maternally toxic, as evidenced by decreased maternal body weight gain during gestation. The no-effect dose for developmental toxicity in rats exposed during organogenesis was 30 mg/kg, which is approximately 4 times the MRDD on a mg/m<sup>2</sup> basis.

When doses of 5, 10 or 50 mg/kg/day were given to New Zealand White rabbits throughout organogenesis, fetal weights were decreased at 50 mg/kg, which is approximately 12 times the MRDD on a mg/m<sup>2</sup> basis. The incidences of fused sternbrae and vena cava deviations were increased in all treated groups. Maternal toxicity was not produced at any dose. A no-effect dose for developmental toxicity in rabbits exposed during organogenesis was not established, and the 5 mg/kg dose is approximately equal to the MRDD on a mg/m<sup>2</sup> basis.

When female rats were treated with 5, 15 or 50 mg/kg/day during late gestation and lactation, in utero deaths were increased and pup weights were decreased postnatally at 50 mg/kg/day. The effect on pup weights persisted to adulthood. Exposure to parent drug (AUC) at that dose was approximately 4 times that achieved in humans receiving the MRDD. The 50 mg/kg/day dose was mildly maternally toxic, as evidenced by minimally decreased maternal body weight gain during gestation. The no-effect dose for developmental effects was 15 mg/kg, a dose that produced an AUC for parent drug approximately equal to that achieved in humans receiving the MRDD.

**Impairment of Fertility:** In a rat fertility and early embryonic development study, doses tested were 50, 100 and 200 mg/kg/day, resulting in systemic exposures to parent drug in rats, based on AUC, that were 4, 8, and 16 times MRDD, respectively, in males and 7, 14, and 28 times MRDD, respectively, in females. There was a prolongation of the estrous cycle at the 200 mg/kg/day dose due to an increase in duration of estrus, based on vaginal smears. There were also dose-related, statistically significant decreases in mean numbers of corpora lutea per dam at all 3 doses, resulting in decreases in mean numbers of implants and viable fetuses per dam. This suggests a partial inhibition of ovulation by eletriptan. There was no-effect on fertility of males and no other effect on fertility of females.

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**PART III: CONSUMER INFORMATION**

**Pr JAMP ELETRIPTAN**

**Eletriptan Hydrobromide Tablets**

**This leaflet is part III of a three-part "Product Monograph" published when JAMP Eletriptan was approved for sale in Canada and is designed specifically for Consumers. This leaflet is a summary and will not tell you everything about JAMP Eletriptan. Contact your doctor or pharmacist if you have any questions about the drug.**

**ABOUT THIS MEDICATION**

**What the medication is used for:**

The name of your medicine is JAMP Eletriptan. This medicine is one of a group of antimigraine drugs called 5-HT<sub>1</sub> agonists.

JAMP Eletriptan is intended to relieve your migraine headache and other associated symptoms of a migraine attack.

**What it does:**

Migraine headache is believed to be caused by a widening of the blood vessels in the head. JAMP Eletriptan narrows the vessels and relieves the pain and other symptoms of migraine headache.

**When it should not be used:**

JAMP Eletriptan should not be used continuously to prevent or reduce the number of attacks you experience. Use JAMP Eletriptan only to treat an actual migraine headache attack. JAMP Eletriptan should not be used to relieve pain other than that associated with migraine headache.

Do not take JAMP Eletriptan if you:

- are allergic to any of the ingredients (see **What the medicinal ingredient is and What the nonmedicinal ingredients are** sections)
- have uncontrolled or severe high blood pressure
- have heart disease or history of heart disease
- have severe liver disease
- have or had a stroke or problems with your blood circulation, Raynaud syndrome or transient ischemic attacks (TIAs)
- have taken any of the following medicines in the last 72 hours: ketoconazole, itraconazole, nefazodone, troleandomycin, clarithromycin, ritonavir, and nelfinavir? These medicines may cause an increase in the amount of eletriptan

hydrobromide in the blood, increasing the risk of serious side effects.

- have taken the following medicines in the last 24 hours: other "triptans" like almotriptan, sumatriptan, naratriptan, zolmitriptan, rizatriptan or ergotamine-type medications such as ergotamine, dihydroergotamine or methysergide. These medicines are of the same class as JAMP Eletriptan, and taking them together increases the risk of serious side effects.

Do not use JAMP Eletriptan if you are pregnant, think you might be pregnant, are trying to become pregnant or are using inadequate contraception, unless you have discussed this with your physician.

**What the medicinal ingredient is:**

Eletriptan hydrobromide

**What the nonmedicinal ingredients are:**

Each tablet also contains the following inactive ingredients: croscarmellose sodium, FD & C Yellow No 6, FCF aluminum lake, lactose monohydrate, microcrystalline cellulose, magnesium stearate, titanium dioxide, polyvinyl alcohol, macrogol and talc.

**Lactose-intolerant Patients:** You should be aware that this product contains lactose.

**What dosage forms it comes in:**

JAMP Eletriptan tablets for oral administration are orange, round, convex shaped, film-coated tablets and contain 20 or 40 mg of eletriptan base.

**WARNINGS AND PRECAUTIONS**

The decision to use JAMP Eletriptan is one that you and your doctor should make jointly, taking into account your individual preferences and medical circumstances. If you have risk factors for heart disease (such as high blood pressure, high cholesterol, obesity, diabetes, smoking, strong family history of heart disease, or you are a postmenopausal female or a male over 40), you should tell your doctor. Your doctor should evaluate you for heart disease in order to determine if JAMP Eletriptan is appropriate for you.

**Important Questions to Consider Before Taking JAMP Eletriptan:**

If the answer to any of the following questions is **yes**, or if you do not know the answer, then please speak with your doctor before you take any **JAMP Eletriptan**.

- Are you pregnant? Do you think you might be pregnant? Are you trying to become

pregnant? Are you using inadequate contraception? Are you breast-feeding?

- Do you experience or have you ever experienced any pain or tightness in the chest, (which may or may not spread to your neck, jaw, or upper arm), shortness of breath, rapid heartbeats or irregular heartbeats? Do you have angina?
- Have you ever had heart or blood vessel disease? Have you had a heart attack or stroke? Have you ever had Raynaud syndrome or transient ischemic attacks (TIAs)?
- Do you have risk factors for heart disease, such as: high blood pressure, high cholesterol, smoking, obesity, diabetes, or strong family history of heart disease? Are you postmenopausal, or a male over 40?
- Have you ever had to stop taking this or any other medication because of an allergy or other problems?
- Are you taking any other migraine 5-HT<sub>1</sub> agonist medications such as almotriptan, sumatriptan succinate/sumatriptan, naratriptan as naratriptan hydrochloride, zolmitriptan, rizatriptan benzoate or migraine medications containing ergotamine, dihydroergotamine, or methysergide?
- Are you taking any medications for depression such as selective serotonin reuptake inhibitors (SSRIs) such as sertraline, escitalopram and fluoxetine, or serotonin norepinephrine reuptake inhibitors (SNRIs) such as venlafaxine, duloxetine?
- Have you ever experienced numbness on one side of your body when you have a headache?
- Have you ever had, or do you have epilepsy or seizures?
- Have you ever had, or do you have liver or kidney problems?
- Is this headache different from your usual migraine attacks?
- Are you over 65 years of age?
- Have you taken or will you be taking any of the following medicines within 72 hours: ketoconazole, itraconazole, nefazodone, troleandomycin, clarithromycin, ritonavir, and nelfinavir? These medicines may cause an increase in the amount of eletriptan hydrobromide in the blood increasing the risk of serious side effects.

If you answered **yes** to any of the above questions, discuss them all with your physician before taking JAMP Eletriptan.

## INTERACTIONS WITH THIS MEDICATION

Some medicines may increase the risk of serious side effects if taken concurrently with JAMP Eletriptan.

Do not take JAMP Eletriptan if you

- have taken any of the following medicines in the last 72 hours: ketoconazole, itraconazole, nefazodone, troleandomycin, clarithromycin, ritonavir, and nelfinavir?
- have taken the following medicines in the last 24 hours: other “triptans” like almotriptan, sumatriptan, naratriptan, zolmitriptan, rizatriptan or ergotamine-type medications such as ergotamine, dihydroergotamine or methysergide.

Ask your physician for instructions about taking JAMP Eletriptan if you are taking selective serotonin reuptake inhibitors (SSRIs) such as sertraline, escitalopram and fluoxetine or serotonin norepinephrine reuptake inhibitors (SNRIs) such as venlafaxine, duloxetine for depression. A life-threatening condition called serotonin syndrome can happen when medicines called triptans, such as JAMP Eletriptan, and medicines used to treat depression and mood disorders called SSRIs or SNRIs are used together. Signs and symptoms of serotonin syndrome include the following: restlessness, diarrhea, hallucinations, coma, loss of coordination, nausea, fast heartbeat, vomiting, increased body temperature, changes in blood pressure and overactive reflexes.

## PROPER USE OF THIS MEDICATION

### Usual dose:

For adults, the dosage is 20 or 40 mg, as recommended by your physician. The dose should be taken as soon as your migraine appears, but it may be taken at any time during your migraine headache.

JAMP Eletriptan tablets should be swallowed whole with water.

If your first dose is 20 mg, a second dose of 20 mg may be taken if your headache returns. Repeat doses cannot be taken any sooner than 2 hours following the first dose. Do not take more than 40 mg in any 24-hour period.

If the first dose does not relieve the symptoms, do not take further doses for the same attack.

**A reminder:** This medicine has been prescribed only for you. Only a doctor knows who can use it safely. Never give this medication to anyone else. It may harm them, even if their symptoms are the same as yours.



**Overdose:**

If you think you have taken too much JAMP Eletriptan, contact your healthcare professional, hospital emergency department or regional poison control centre immediately, even if there are no symptoms.

**SIDE EFFECTS AND WHAT TO DO ABOUT THEM**

**Side Effects to Watch for:** Although the vast majority of JAMP Eletriptan users have not experienced any significant problems, you should be aware of the following side effects:

- **Sensations of pain, pressure or tightness in the chest, neck, throat, jaw or arms. If this happens to you, then discuss it with your doctor before using any more JAMP Eletriptan. If the chest pain is severe (may resemble an angina attack) or does not go away, call your doctor immediately.**
- **Shortness of breath; wheezing; heart throbbing; swelling of face, lips, eyelids; skin rash; skin lumps; or hives. Tell your doctor immediately. Do not continue to take JAMP Eletriptan unless advised by your doctor.**
- Feeling weak, dizziness, feeling sleepy or drowsy, tingling, difficulty swallowing, nausea and stomach pain/cramps.
- Drowsiness in some patients. Dizziness and drowsiness have also been reported in some patients receiving eletriptan hydrobromide tablets. Therefore, do not drive or operate machinery if you are experiencing these symptoms or side effects.

If you feel unwell in any other way or have any symptoms that you do not understand, contact your doctor or pharmacist.

***This is not a complete list of side effects. For any unexpected effects while taking JAMP Eletriptan, contact your doctor or pharmacist.***

**HOW TO STORE IT**

Keep your medicine in a safe place out of the reach and sight of children. JAMP Eletriptan could be harmful to children. Store at room temperature (15-30°C). Keep in closed container and protect from moisture.

If your doctor tells you to stop taking JAMP Eletriptan or if your medicine has expired, discard it by returning it to your pharmacist.

**Reporting Side Effects**

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/adverse-reaction-reporting.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

*Note: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice*

**MORE INFORMATION**

**If you want more information about JAMP Eletriptan:**

- Talk to your healthcare professional.
- Find the full Product Monograph that is prepared for healthcare professionals and includes this Consumer Information by visiting the Health Canada website (<https://health-products.canada.ca/dpd-bdpp/index-eng.jsp>) or by calling the sponsor at: 1-866-399-9091.

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