PRODUCT MONOGRAPH

PrTEVA-NARATRIPTAN

naratriptan tablets, USP (naratriptan as naratriptan hydrochloride)

1 mg and 2.5 mg Tablets

5-HT₁ Receptor Agonist

Migraine Therapy

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PRODUCT MONOGRAPH

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1 mg and 2.5 mg

PART I: HEALTH PROFESSIONAL INFORMATION

SUMMARY PRODUCT INFORMATION

Route of	Dosage Form/	Nonmedicinal Ingredients
Administration	Strength	
Oral	Tablets /	croscarmellose sodium, FD&C Blue #1,
	1 mg and 2.5 mg	hydroxypropyl methylcellulose, iron oxide black,
		iron oxide yellow, lactose monohydrate,
		magnesium stearate, microcrystalline cellulose,
		polyethylene glycol, polyvinyl alcohol, talc and
		titanium dioxide.

INDICATIONS AND CLINICAL USE

TEVA-NARATRIPTAN (naratriptan hydrochloride) Tablets are indicated for the acute treatment of migraine attacks with or without aura in adults.

TEVA-NARATRIPTAN Tablets are not intended for the prophylactic therapy of migraine or for use in the management of hemiplegic, basilar or ophthalmoplegic migraine (see CONTRAINDICATIONS). Safety and efficacy have not been established for cluster headache which is present in an older, predominantly male population.

Geriatrics (> 65 years of age):

The safety and efficacy of naratriptan hydrochloride have not been adequately studied in individuals over 65 years of age. Naratriptan hydrochloride is known to be substantially excreted by the kidney, and the risk of adverse reactions to this drug may be greater in elderly patients who have reduced renal function. In addition, elderly patients are more likely to have decreased hepatic function; they are at higher risk for Coronary Artery Disease (CAD), and blood pressure increases may be more pronounced in the elderly. Clinical studies of naratriptan hydrochloride did not include patients over 65 years of age. Its use in this age group is, therefore, not recommended (see WARNINGS AND PRECAUTIONS).

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Pediatrics (< 18 years of age)

Adolescents (12-17 years of age):

The efficacy of naratriptan hydrochloride at single doses of 0.25, 1.0 and 2.5 mg was not demonstrated to be greater than placebo in adolescents (12-17 years). Furthermore, the safety of naratriptan hydrochloride in adolescents has not been established. Therefore, the use of the drug in adolescents is not recommended (see WARNINGS AND PRECAUTIONS).

Children (< 12 years of age):

The safety and efficacy of naratriptan hydrochloride have not been studied in children under 12 years of age. Use of the drug in this age group is, therefore, not recommended (see WARNINGS AND PRECAUTIONS).

CONTRAINDICATIONS

TEVA-NARATRIPTAN (naratriptan hydrochloride) 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 (e.g., atherosclerotic disease, congenital heart disease) should not receive TEVA-NARATRIPTAN. Ischemic cardiac syndromes include, but are not limited to, angina pectoris of any type (e.g., 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 TEVA-NARATRIPTAN can give rise to increases in blood pressure, it is contraindicated in patients with uncontrolled or severe hypertension (see WARNINGS AND PRECAUTIONS).

Ergot-containing drugs have been reported to cause prolonged vasospastic reactions. Because TEVA-NARATRIPTAN may also cause coronary vasospasm and these effects may be additive, the use of TEVA-NARATRIPTAN within 24 hours before or after treatment with other 5-HT₁ receptor agonists, or ergotamine-containing drugs or their derivatives (e.g., dihydroergotamine, methysergide) is contraindicated.

TEVA-NARATRIPTAN is contraindicated in patients with hemiplegic, basilar, or ophthalmoplegic migraine.

TEVA-NARATRIPTAN Tablets are contraindicated in patients with severe renal impairment (creatinine clearance <15 mL/min) (see DOSAGE AND ADMINISTRATION and ACTION AND CLINICAL PHARMACOLOGY).

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TEVA-NARATRIPTAN Tablets are contraindicated in patients with severe hepatic impairment (Child-Pugh grade C) (see DOSAGE AND ADMINISTRATION and ACTION AND CLINICAL PHARMACOLOGY).

TEVA-NARATRIPTAN Tablets are contraindicated in patients with hypersensitivity to naratriptan or to any component of the formulation or component of the container. For a complete listing, see the DOSAGE FORMS, COMPOSITION AND PACKAGING section of the Product Monograph.

WARNINGS AND PRECAUTIONS

General

TEVA-NARATRIPTAN (naratriptan hydrochloride) should only be used where a clear diagnosis of migraine has been established.

Cardiovascular

Risk of Myocardial Ischemia and/or Infarction and Other Adverse Cardiac Events:

Naratriptan hydrochloride has been associated with transient chest and/or neck pain and tightness which may resemble angina pectoris. In rare cases, the symptoms have been identified as being the likely result of coronary vasospasm or myocardial ischemia. Rare cases of serious coronary events or arrhythmia have occurred following use of another 5-HT₁-agonist. TEVA-NARATRIPTAN should not be given to patients who have documented ischemic or vasospastic coronary artery disease (see CONTRAINDICATIONS). It is strongly recommended that TEVA-NARATRIPTAN not be given to patients in whom unrecognized coronary artery disease (CAD) is predicted by the presence of risk factors (e.g., hypertension, hypercholesterolemia, smoking, obesity, diabetes, strong family history of CAD, female who is surgically or physiologically postmenopausal, or male who is 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 unknown. If, during the cardiovascular evaluation, the patient's medical history or electrocardiographic investigations reveal findings indicative of or consistent with coronary artery vasospasm or myocardial ischemia, TEVA-NARATRIPTAN should not be administered (see CONTRAINDICATIONS).

For patients with risk factors predicative of CAD who are considered to have a satisfactory cardiovascular evaluation, the first dose of TEVA-NARATRIPTAN should be administered in the setting of a physician's office or similarly medically staffed and equipped facility. Because cardiac ischemia can occur in the absence of clinical symptoms, consideration should be given to obtaining electrocardiograms (ECG) in patients with risk factors during the interval immediately following TEVA-NARATRIPTAN administration

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on the first occasion of use. However, an absence of drug-induced cardiovascular effects on the initial dose does not preclude the possibility of such effects occurring with subsequent administrations.

Intermittent long-term users of TEVA-NARATRIPTAN who have or acquire risk factors predictive of CAD, as described above, should receive periodic interval cardiovascular evaluations over the course of treatment. If symptoms consistent with angina occur after the use of TEVA-NARATRIPTAN, ECG evaluation should be carried out to look for ischemic changes.

The systemic approach described above is intended to reduce the likelihood that patients with unrecognized cardiovascular disease will be inadvertently exposed to TEVA-NARATRIPTAN.

Discomfort in the chest, neck, throat and jaw (including pain, pressure, heaviness, tightness, dyspnea) has been reported after administration of naratriptan hydrochloride. Because 5-HT₁ agonists may cause coronary artery vasospasm, patients who experience signs or symptoms suggestive of angina following naratriptan hydrochloride 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 naratriptan administration should be evaluated for atherosclerosis or predisposition to vasospasm (see CONTRAINDICATIONS and ADVERSE DRUG REACTIONS, Clinical Trial Adverse Drug Reactions).

Cardiac Events and Fatalities Associated with 5-HT₁ Agonists: TEVA-NARATRIPTAN can 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 5-HT₁ agonists. Considering the extent of use of 5-HT₁ agonists in patients with migraine, the incidence of these events is extremely low.

Premarketing Experience with Naratriptan Hydrochloride Tablets: Among approximately 3500 patients with migraine who participated in premarketing clinical trials of naratriptan hydrochloride tablets, four patients treated with single oral doses of naratriptan hydrochloride ranging from 1 to 10 mg experienced asymptomatic ischemic ECG changes with at least one, who took 7.5 mg, likely due to coronary vasospasm.

Cerebrovascular Events and Fatalities with 5-HT₁ Agonists: Cerebral hemorrhage, subarachnoid hemorrhage, stroke and other cerebrovascular events have been reported in patients treated with 5-HT₁ 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 with a consequence of migraine, when they were not. Before treating migraine headaches with TEVA-NARATRIPTAN in patients not previously diagnosed as migraineurs, and in migraineurs who present with atypical symptoms, care should be taken to exclude other potentially serious neurological conditions. If a patient

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does not respond to first dose, the opportunity should be taken to review the diagnosis before a second dose is given. It should be noted that patients with migraine may be at increased risk of certain cerebrovascular events (e.g., stroke, hemorrhage, TIA).

Special Cardiovascular Pharmacology Studies: In subjects (n=10) with suspected coronary artery disease undergoing angiography, naratriptan 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 four subjects. Clinically significant increases in blood pressure were experienced by three of the subjects (two 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.

Migraine patients (n=35) free of cardiovascular disease were subjected to assessments of myocardial perfusion by positron emission tomography while receiving subcutaneous naratriptan 1.5 mg in the absence of a migraine attack. Naratriptan was associated with a reduced coronary vasodilatory reserve (\sim 10%), increased coronary resistance (\sim 20%), and decreased hyperemic myocardial blood flow (\sim 10%). The relevance of these findings to the use of recommended oral doses of naratriptan is not known.

Other Vasospasm-Related Events: 5-HT₁ agonists may cause vasospastic reactions other than coronary artery vasospasm. Extensive post-market experience has shown the use of naratriptan to be associated very rare occurrences of peripheral vascular ischemia and colonic ischemia with abdominal pain and bloody diarrhea.

Increases in Blood Pressure: Elevations in blood pressure have been reported following use of naratriptan hydrochloride. At the recommended oral doses, the elevations are generally small (population average maximum increases of < 5 mmHg systolic and < 3 mmHg diastolic at the 2.5 mg dose.) The effects may be more pronounced in the elderly and hypertensive patients. In a pharmacodynamic study conducted in normotensive patients (n=12) and in hypertensive patients controlled by antihypertensive treatment (n=12), the pressor effects of naratriptan hydrochloride were greater in hypertensive patients (weighted mean increases in systolic and diastolic blood pressure of 6 and 4 mmHg in hypertensive subjects versus 3 and 2 mmHg in normotensive patients receiving two 2.5 mg doses separated by a 2 hour time interval). Two hypertensive patients experienced three events of chest discomfort while receiving naratriptan. Significant elevation in blood pressure, including hypertensive crisis, has been reported on rare occasions in patients receiving 5-HT₁ agonists with and without a history of hypertension. TEVA-NARATRIPTAN is contraindicated in patients with uncontrolled or severe hypertension (see CONTRAINDICATIONS).

In patients with controlled hypertension, naratriptan hydrochloride should be administered with caution, as transient increases in blood pressure and peripheral vascular resistance have been observed in a small portion of patients.

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Immune

Hypersensitivity: Rare hypersensitivity (anaphylaxis/anaphylatoid) reactions may occur in patients receiving 5-HT₁ agonists, such as naratriptan hydrochloride. 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 (see CONTRAINDICATIONS). Owing to the possibility of cross-reactive hypersensitivity reactions, naratriptan hydrochloride should not be used in patients having a history of hypersensitivity to sumatriptan or chemically-related 5-HT₁ receptor agonists. As naratriptan hydrochloride contains a sulphonamide component, there is a theoretical risk of hypersensitivity reactions in patients with known hypersensitivity to sulphonamides.

Neurologic

Care should be taken to exclude other potentially serious neurologic conditions before treating headache in patients not previously diagnosed with migraine or who experience a headache that is atypical for them. There have been rare reports where patients received 5-HT₁ 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 TEVA-NARATRIPTAN.

Seizures: Caution should be observed if TEVA-NARATRIPTAN is to be used in patients with a history of epilepsy or structural brain lesions, which lower the convulsion threshold.

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 TEVA-NARATRIPTAN 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, SSRIs/SNRIs).

Psychomotor Impairment: In a study of psychomotor function in healthy volunteers, single oral 5 and 10 mg doses of naratriptan hydrochloride were associated with sedation and decreased alertness. Although these doses are higher than those recommended for the treatment of migraine, patients should be cautioned that drowsiness may occur following treatment with TEVA-NARATRIPTAN. They should be advised not to perform skilled tasks (e.g. driving or operating machinery) if drowsiness occurs.

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Ophthalmologic

Melanin Binding: In pigmented rats treated with a single oral dose (10 mg/kg) of radiolabelled naratriptan, radioactivity was detected in the eyes at 3 months post-administration, a finding which suggests that the drug or its metabolites may bind to the melanin of the eye. The possible clinical significance of this finding is unknown. No systematic monitoring of ophthalmologic function was undertaken in clinical trials. Prescribers should consider the possibility of long-term ophthalmologic effects due to accumulation of naratriptan in melanin-rich tissues.

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.

Special Populations

Pregnant Women:

In animals at high doses, maternal toxicity and associated developmental toxicity (skeletal variation and post implantation loss) occurred (see TOXICOLOGY – Reproduction and Teratology). Post-marketing data from prospective pregnancy registries have documented the pregnancy outcomes in women exposed to naratriptan. Due to a small sample size no definitive conclusion can be drawn regarding the risk of birth defects following exposure to naratriptan during pregnancy. Because its safety to the fetus has not been demonstrated, TEVA-NARATRIPTAN Tablets should not be used during pregnancy unless the potential benefit to the mother justifies the potential risk to the fetus.

Nursing Women: Naratriptan hydrochloride and/or its metabolites are distributed into the milk of lactating rats (at 2 hours post oral gavage dosing, levels in milk were 3.5 times higher than maternal plasma levels). It is not known if naratriptan hydrochloride is secreted into the human breast milk. Therefore, caution should be exercised when considering the administration of TEVA-NARATRIPTAN Tablets to nursing women.

Children (< 12 years of age): Safety and efficacy of naratriptan hydrochloride tablets have not been studied in children under 12 years of age. Use of the drug in this age group is, therefore, not recommended.

Adolescents (12-17 years of age): The efficacy of naratriptan hydrochloride tablets at single doses of 0.25, 1.0 and 2.5 mg was not demonstrated to be greater than placebo in adolescents (12-17 years). Furthermore, the safety of naratriptan hydrochloride in adolescents has not been established. Therefore, the use of the drug in adolescents is not recommended.

Geriatrics (> 65 years of age): The safety and effectiveness of naratriptan hydrochloride has not been adequately studied in individuals over 65 years of age. Naratriptan hydrochloride is known to be substantially excreted by the kidney, and the risk of adverse reactions to this drug may be greater in elderly patients who have reduced renal function. In addition, elderly patients are more likely to have decreased hepatic function; they are at higher risk for Coronary Artery Disease (CAD); and blood pressure increases may be more pronounced in the elderly. Clinical studies of naratriptan hydrochloride did not include patients over 65 years of age. Its use in this age group

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is, therefore, not recommended.

Hepatic Impairment: TEVA-NARATRIPTAN Tablets should be administered with caution to patients with impaired hepatic function (see CONTRAINDICATIONS, DOSAGE AND ADMINISTRATION and ACTION AND CLINICAL PHARMACOLOGY).

Renal Impairment: TEVA-NARATRIPTAN Tablets should be administered with caution to patients with impaired renal function (see CONTRAINDICATIONS, DOSAGE AND ADMINISTRATION and ACTION AND CLINICAL PHARMACOLOGY).

Monitoring and Laboratory Tests

No specific laboratory tests are recommended for monitoring patients prior to and/or after treatment with TEVA-NARATRIPTAN.

Dependence/Tolerance

Dependence Liability: In one clinical study enrolling 12 subjects, all of whom had experience using oral opiates and other psychoactive drugs, subjective responses typically associated with many drugs of abuse were produced with less intensity during treatment with naratriptan hydrochloride (1 to 5 mg) than with codeine (30 to 90 mg). Long-term studies (12 months) in migraine patients using naratriptan hydrochloride tablets revealed no evidence of increased drug utilization.

ADVERSE REACTIONS

Serious cardiac events, including some that have been fatal, have occurred following the use of 5-HT₁ agonists. These events are extremely rare and most have been reported in patients with risk factors predictive 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).

Clinical Trial Adverse Drug Reactions

Because clinical trials are conducted under very specific conditions, the adverse reaction rates observed in the clinical trials may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse drug reaction information from clinical trials is useful for identifying drug-related adverse events and for approximating rates.

Experience in Clinical Trials with Naratriptan Hydrochloride

Typical 5-HT₁ Agonist Adverse Reactions: As with other 5-HT₁ agonists, naratriptan hydrochloride has been associated with sensations of heaviness, pressure, tightness or pain which

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may be intense. These may occur in any part of the body including the chest, throat, neck, jaw and upper limb.

Acute Safety: The safety and efficacy of the 1 and 2.5 mg doses of naratriptan hydrochloride were investigated in four placebo-controlled clinical trials in adult migraine patients. Two of these trials were of parallel group design and involved the treatment of a single migraine attack. A third study was of crossover design and involved the treatment of one migraine attack per dose group. The fourth study was a parallel group trial in which patients treated up to 3 migraine attacks. In all studies, patients who achieved headache relief at 240 minutes post-dose, but experienced a worsening of severity between 4 and 24 hours post-dosing, were permitted to take a second dose of double-blind medication identical to the first.

The overall incidence of adverse events following doses of 1 mg or 2.5 mg naratriptan hydrochloride (one or more doses) was similar to placebo (28.5% and 30.2% versus 28.9% with placebo). Naratriptan hydrochloride tablets were generally tolerated, and most adverse reactions were mild, transient and self-limiting. The most common adverse events to occur at a higher rate than in the corresponding placebo group were malaise/fatigue (2.4% versus 0.8% with placebo) and neck/throat/jaw sensations (2.1% versus 0.3% with placebo). Table 1 lists the most common adverse events that occurred in the four large placebo-controlled clinical trials. Only events that occurred at a frequency of 1% or more in the naratriptan hydrochloride tablets 2.5 mg or 1 mg group and were more frequent in that group than in the placebo group are included in Table 1. From this table, it appears that many of these adverse events are related.

Table 1 Treatment-Emergent Adverse Events in Placebo-Controlled Clinical Trials Reported by at Least 1% of Patients with Migraine

	Placebo	Naratriptan hydrochlorido	Naratriptan
Number of Patients	922	1024	1016
Number of Migraine Attacks Treated	1059	1387	1368
Symptoms of Potentially Cardiac Origin			
Neck/throat/jaw sensations*	0.3%	1.7%	2.1%
Chest sensations*	1.1%	0.8%	1.2%
Upper limb sensations*	0.3%	0.5%	1.4%
Neurological			
Dizziness	1.5%	1.0%	2.2%
Drowsiness/sleepiness	0.8%	0.9%	1.7%
Paresthesia	0.8%	1.6%	1.5%
Head/face sensations*	0.5%	0.5%	1.3%
Headache	0.2%	0.4%	1.0%
Gastrointestinal			
Nausea	6.2%	5.9%	6.3%
Hyposalivation	0.3%	0.5%	1.0%
Non-Site Specific			

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Malaise and fatigue	0.8%	1.6%	2.4%
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^{*}The term "sensations" encompasses adverse events described as pain and discomfort, pressure, heaviness, constriction, tightness, heat/burning sensation, paresthesia, numbness, tingling and strange sensations.

Long-Term Safety: In a long-term open study, 417 patients treated 15,301 migraine attacks with naratriptan hydrochloride over a period of up to 1 year. The most common adverse events in descending order of frequency were as follows: nausea (16%); malaise/fatigue (11%); drowsiness (10%); chest sensations* (8%); neck/throat/jaw sensations* (8%); paresthesia (7%); head/face sensations* (6%); vomiting (6%); and dizziness (5%). Due to the lack of a placebo arm in this study, the role of naratriptan hydrochloride in causation cannot be reliably determined (*see footnote for Table 1).

Other Adverse Events Observed in Association with Naratriptan Hydrochloride: In the paragraphs that follow, the frequencies of less commonly reported adverse clinical events are presented. Because some events were observed in open and uncontrolled studies, the role of naratriptan hydrochloride tablets in their causation cannot be reliably determined. 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. Event frequencies are calculated as the number of patients reporting an event divided by the total number of patients (N=2790) exposed to naratriptan hydrochloride tablets. Events are further classified within body system categories and enumerated in order of decreasing frequency using the following definitions: common adverse events are defined as those occurring in at least 1/100 patients; uncommon adverse events are those occurring in 1/100 to 1/1,000 patients; rare adverse events are those occurring in fewer than 1/1,000 patients.

General: Common: paresthesia and heat sensations. Uncommon: chills and/or fever, description of odour or taste and feelings of pressure/tightness/heaviness. Rare: allergies, allergic reactions, mobility disorders and faintness.

Cardiovascular: Uncommon: palpitations, increased blood pressure, tachyarrhythmias, abnormal ECGs and syncope; Rare: bradycardia, hypotension, varicosities and heart murmur.

Ear, Nose, and Throat: Common: ear, nose and throat infections; Uncommon: phonophobia, sinusitis and upper respiratory inflammation; Rare: allergic rhinitis, labyrinthitis, tinnitus, ear, nose and throat hemorrhage and difficulty hearing.

Endocrine and Metabolism: Uncommon: thirst, polydipsia, dehydration and fluid retention. Rare: hyperlipidemia, hypercholesterolemia, hypothyroidism, hyperglycemia, glycosuria, ketonuria and parathyroid neoplasm.

Gastrointestinal: Common: vomiting; Uncommon: dyspeptic syndromes, diarrhea, hyposalivation, gastrointestinal discomfort and pain, gastroenteritis and constipation; Rare: abnormal liver function tests, abnormal bilirubin levels, salivary gland swelling, hemorrhoids, gastritis, esophagitis, oral itching and irritation, regurgitation, reflux and gastric ulcers.

Musculoskeletal: Uncommon: musculoskeletal/muscle pain, muscle cramps, muscle spasms, arthralgia and articular rheumatism; Rare: joint and muscle stiffness, tightness and rigidity.

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Neurologic: Common: migraine; Uncommon: vertigo, tremors, sleep disorders, cognitive function disorders and hyperesthesia. Rare: disorders of equilibrium, decreased consciousness, confusion, sedation, coordination disorders, neuritis, dreams, altered sense of taste, motor retardation, muscle twitching, fasciculation and convulsions.

Ophthalmologic: Uncommon: photophobia; Rare: eye hemorrhage, dry eyes and difficulty focusing.

Psychiatry: Uncommon: anxiety and depressive disorders; Rare: aggression, agitation and detachment.

Sexual Function/Reproduction: Rare: lumps of female reproductive tract and inflammation of the fallopian tube.

Skin: Uncommon: skin photosensitivity, rashes, pruritus, sweating and urticaria; Rare: erythema, dermatitis, dermatosis, pruritic skin rash, hair loss and alopecia.

Urologic: Uncommon: urinary infections; Rare: urinary tract hemorrhage, urinary urgency and pyelitis.

Post-Market Adverse Drug Reactions:

The following section enumerates potentially important adverse events that have occurred in clinical practice and that have been reported spontaneously to various surveillance systems. The events enumerated represent reports arising from both domestic and nondomestic use of naratriptan. These events do not include those already listed in the ADVERSE REACTIONS section above. Because the reports cite events reported spontaneously from worldwide postmarketing experience, frequency of events and the role of naratriptan in their causation cannot be reliably determined.

General: Hypersensitivity, including anaphylaxis/anaphylactoid reactions, in some cases severe (e.g., circulatory collapse) (see WARNINGS AND PRECAUTIONS).

Cardiovascular: Angina, myocardial infarction, peripheral vascular ischemia, cerebral vascular accident, including transient ischemic attack, subarachnoid hemorrhage and cerebral infarction (see WARNINGS AND PRECAUTIONS).

Gastrointestinal: Colonic ischemia (see WARNINGS AND PRECAUTIONS).

Neurologic: Somnolence (see WARNINGS AND PRECAUTIONS).

Respiratory: Dyspnea (see WARNINGS AND PRECAUTIONS).

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DRUG INTERACTIONS

Overview

The limited metabolism of naratriptan hydrochloride and the wide range of cytochrome P450 isoenzymes involved, as determined by *in vitro* studies, suggest that significant drug interactions with naratriptan hydrochloride are unlikely. Naratriptan hydrochloride did not inhibit monoamine oxidase (MAO-A or MAO-B) *in vitro*. The possibility of pharmacodynamic *in vivo* interactions between naratriptan hydrochloride and monoamine oxidase inhibitors has not been investigated.

Drug-Drug Interactions

Ergot-Containing Drugs: Ergot-containing drugs have been reported to cause prolonged vasospastic reactions. Because there is a theoretical basis for these effects being additive, ergot-containing or ergot-type medications (e.g., dihydroergotamine or methysergide) are contraindicated within 24 hours of TEVA-NARATRIPTAN administration (see CONTRAINDICATIONS).

Other 5-HT₁ Agonists: The administration of naratriptan hydrochloride with other 5-HT₁ agonists has not been evaluated in migraine patients. As an increased risk of coronary vasospasm is a theoretical possibility with co-administration of 5-HT₁ agonists, use of these drugs within 24 hours of each other is contraindicated (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).

Hormonal Contraceptives: In a population pharmacokinetic study in migraine patients, hormonal contraceptive use was associated with a 32% decrease in naratriptan clearance.

Drug-Food Interactions

Alcohol and Food: Clinical studies did not reveal any pharmacokinetic interaction when naratriptan was administered together with alcohol or food.

Drug-Lifestyle Interactions

Tobacco: In a population pharmacokinetic study in migraine patients, tobacco use was associated with a 29% increase in naratriptan clearance.

Drug-Laboratory Interactions

Naratriptan hydrochloride is not known to interfere with commonly employed clinical laboratory tests.

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DOSAGE AND ADMINISTRATION

Dosing Considerations

- TEVA-NARATRIPTAN (naratriptan hydrochloride) tablets are recommended only for the acute treatment of migraine attacks.
- TEVA-NARATRIPTAN should not be used prophylactically.
- The safety of treating, on average, more than four headaches in a 30 day period has not been established.
- If a patient does not respond to the first dose of TEVA-NARATRIPTAN tablets, a second dose should not be taken for the same attack, as it is unlikely to be of benefit.
- TEVA-NARATRIPTAN can be taken with or without food.

Recommended Dose and Dosage Adjustment

Adults: The minimal effective single adult dose of TEVA-NARATRIPTAN Tablets is 1 mg. The maximum recommended single dose is 2.5 mg, which should not be exceeded (see CLINICAL TRIALS).

Table 2 Percentage of Patients with Headache Relief at 4 Hours Post-Dosing[‡]

	Pla	Placebo		Naratriptan hydrochloride 1 mg		Naratriptan hydrochloride 2.5 mg	
	%	(N)	%	(N)	%	(N)	
Study 1	39	(91)	64	(85)	63 [†]	(87)	
Study 2	34	(122)	50*	(117)	60* [†]	(127)	
Study 3	27	(107)	52*	(219)	66* ^M	(209)	
Study 4	33	(602)	57*	(595)	68* ^M	(586)	

Pain relief is defined as a reduction in headache severity from grade 3 or 2 (severe or moderate) to grade 1 or 0 (mild or no pain)

In 3 of the 4 studies, optimal rates of headache relief were achieved with a 2.5 mg dose. As patients may vary in their dose-responsiveness, the choice of dose should be made on an individual basis, weighing the possible benefit of the 2.5 mg dose with the potential for a greater risk of adverse events.

Administration

TEVA-NARATRIPTAN tablets should be swallowed whole with water. TEVA-NARATRIPTAN tablets should be taken as early as possible after the onset of a migraine headache, but are effective if taken at a later stage.

Redosing

If the migraine headache returns, or if a patient has a partial response, the initial dose may be repeated once after 4 hours, for a maximum dose of 5 mg in a 24 hours period.

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Comparison between 1 mg and 2.5 mg naratriptan hydrochloride doses was not performed

^{*} p<0.05 versus placebo

M p<0.01 versus naratriptan hydrochloride 1 mg

Special Populations

Renal Impairment: Renal disease/functional impairment causes prolongation of the half-life of orally administered TEVA-NARATRIPTAN. Consequently, if treatment is deemed advisable in the presence of renal impairment, a maximum single dose of 1 mg should be administered. No more than a total of 2 mg should be taken in any 24 hour period. Repeated dosing in renally impaired patients has not been evaluated (see ACTION AND CLINICAL PHARMACOLOGY). Administration of TEVA-NARATRIPTAN tablets in patients with severe renal impairment (creatinine clearance <15 mL/min) is contraindicated (see CONTRAINDICATIONS).

Hepatic Impairment: Hepatic disease/functional impairment causes prolongation of the half-life of orally administered TEVA-NARATRIPTAN. Consequently, if treatment is deemed advisable in the presence of hepatic impairment, a maximum single dose of 1 mg should be administered. No more than a total of 2 mg should be taken in any 24 hour period (see ACTION AND CLINICAL PHARMACOLOGY). Administration of TEVA-NARATRIPTAN tablets in patients with severe hepatic impairment (Child-Pugh grade C) is contraindicated (see CONTRAINDICATIONS).

Hypertension: TEVA-NARATRIPTAN should not be used in patients with uncontrolled or severe hypertension. Patients with mild to moderate controlled hypertension should be treated cautiously at the lowest effective dose.

OVERDOSAGE

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

In clinical studies, numerous patients (n=222) and healthy subjects (n=196) have received naratriptan hydrochloride tablets at doses of 5 to 25 mg. In the majority of cases, no serious adverse events were reported. One patient treated with a 7.5 mg dose experienced ischemic ECG changes, which were likely due to coronary vasospasm. This event was not associated with a serious clinical outcome. A patient who was mildly hypertensive experienced a significant increase in blood pressure (baseline value of 150/98 to 204/144 mmHg at 225 minutes) beginning 30 minutes after the administration of a 10 mg dose (4 times the maximum recommended single dose). The event resolved with antihypertensive treatment. Administration of 25 mg (10 times the maximum recommended single dose) in one healthy male subject increased blood pressure from 120/67 mmHg pre-treatment up to 191/113 mmHg at approximately 6 hours post-dose and resulted in adverse events including lightheadedness, tension in the neck, tiredness and loss of coordination. Blood pressure returned to near baseline by 8 hours after dosing without any pharmacological intervention.

The elimination half-life of naratriptan is about 5 to 8 hours (see ACTION AND CLINICAL PHARMACOLOGY), and therefore monitoring of patients after overdose with TEVA-NARATRIPTAN Tablets should continue for at least 24 hours or longer if symptoms or signs persist. Standard supportive treatment should be applied as required. If the patient presents with

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chest pain or other symptoms consistent with angina pectoris, electrocardiogram monitoring should be performed for evidence of ischemia. Appropriate treatment (e.g., nitroglycerin or other coronary artery vasodilators) should be administered as required.

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

ACTION AND CLINICAL PHARMACOLOGY

Mechanism of Action

Naratriptan hydrochloride has been demonstrated to be a selective agonist for a vascular 5-hydroxytryptamine receptor subtype (probably a member of the 5-HT_{1B/1D} family) with little or no binding affinity for 5-HT_{2/3} receptor subtypes, alpha₁-, alpha₂-, or beta-adrenergic; dopamine₁; dopamine₂; muscarinic; or benzodiazepine receptors. Naratriptan did not exhibit agonist or antagonist activity in *ex vivo* assays of 5-HT₄ and 5-HT₇ receptor-mediated activities. The therapeutic activity of naratriptan hydrochloride in migraine is generally attributed to its agonist activity at 5-HT_{1B}/5-HT_{1D} receptors. Two current theories have been proposed to explain the efficacy of 5-HT₁ receptor agonists in migraine. One theory suggests that activation of 5-HT₁ receptors located on intracranial blood vessels, including those on the arteriovenous anastomoses, leads to vasoconstriction, which is believed to be correlated with the relief of migraine headache. The other hypothesis suggests that activation of 5-HT₁ receptors on perivascular fibres of the trigeminal system results in the inhibition of pro-inflammatory neuropeptide release. These theories are not mutually exclusive.

Pharmacokinetics

Absorption: Naratriptan is well absorbed, with 74% oral bioavailability in females and 63% in males. After oral administration, the absorption is rapid and peak concentrations are obtained in 2 to 5 hours. A two-period crossover study was performed in 15 female migraine patients who received naratriptan hydrochloride as a single 2.5 mg tablet during a migraine attack, followed 3-7 days later by another 2.5 mg treatment during a non-migraine period. During a migraine attack, absorption is slower, although exposure (AUC) and elimination half-life are not significantly affected.

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Table 3 Pharmacokinetic Parameters in Female Migraine Patients after Receiving 2.5 mg Naratriptan hydrochloride Tablets*

Parameter	Migraine Attack (N=15)	Non-Migraine Period (N=15)
C _{max} (ng/mL)	7.66 (3.07)	9.50 (3.63)
t _{max} (h)	3.8 (2.1)	2.0 (1.0)
AUC (ng/mL•h)	86.7 (32.5)	92.0 (33.7)
Cl/F (mL/min)	467.5 (126.4)	520.7 (222.6)
t _{1/2} (h)	6.75 (1.44)	7.02 (2.39)

^{*} values quoted are arithmetic mean (standard deviation)

 C_{max} - maximum concentrations t_{max} - time to maximum concentration

Cl/f - apparent clearance $t_{1/2}$ - elimination half-life

AUC - area under the curve of concentration vs time extrapolated to infinity

Plasma levels of naratriptan increase in a dose-proportional manner consistent with linear pharmacokinetics over a 1 to 10 mg dose range. The absorption and elimination are independent of the dose. Administration with food does not appreciably influence the pharmacokinetics of naratriptan. Repeat administration of naratriptan hydrochloride tablets (up to 10 mg once daily for 5 days) does not result in drug accumulation.

Distribution: According to a population pharmacokinetics estimate, naratriptan is distributed into a volume of approximately 261 L. Plasma protein binding is low (29%).

Metabolism: *In vitro*, naratriptan is metabolized by a wide range of cytochrome P450 isoenzymes into a number of inactive metabolites. Naratriptan is a poor inhibitor of cytochrome P450 isoenzymes, and does not inhibit monoamine oxidase (MAO) enzymes; metabolic interactions between naratriptan and drugs metabolized by P450 or MAO are, therefore, unlikely.

Excretion: The elimination half-life generally ranges from 5-8 hours. Oral clearance is 509 mL/min in females and 770 mL/min in males. The renal clearance (220 mL/min) exceeds the glomerular filtration rate, suggesting that the drug undergoes active tubular secretion. Naratriptan is predominantly eliminated in urine, with 50% of the dose recovered unchanged and 30% as metabolites.

Special Populations and Conditions

Geriatrics: A study was performed to compare the pharmacokinetics of naratriptan in young (6 female/6 male, 24-44 years of age) and elderly (6 female/6 male, 65-77 years of age) subjects. The subjects received two doses each of placebo, 1 mg naratriptan and 2.5 mg naratriptan separated by 4 hour intervals. A minimum 96 hour period intervened between consecutive treatment days.

Elderly patients experienced a higher degree of exposure to naratriptan than did younger subjects. Mean C_{max} and area under the plasma concentration time curve values were 28% and

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38% higher, respectively, for the 1 mg treatment group and 15% and 32% higher, respectively, for the 2.5 mg group. Total and renal clearance were decreased by about 30%, while the elimination half-life was increased by about 1 hour.

Elevations in systolic blood pressure at the 2.5 mg dose were more pronounced in the elderly subjects than in the young subjects (mean peak increases 12 mmHg in elderly versus 2 mmHg in young subjects).

Hepatic Impairment: Liver metabolism plays a limited role in the clearance of naratriptan. The pharmacokinetics of a single 2.5 mg dose of naratriptan were determined in subjects with moderate hepatic impairment (Child-Pugh grade A or B, n = 8) and gender- and age-matched healthy subjects (n=8). Subjects with hepatic impairment showed a moderate decrease in clearance (approximately 30%) resulting in increases of approximately 40% in the half-life (range, 8 to 16 hours) and the area under the plasma concentration time curve (see DOSAGE AND ADMINISTRATION).

Renal Impairment: Renal excretion is the major route for elimination of naratriptan. A study to compare male and female subjects with mild to moderate renal impairment (n = 15; 31-58 years of age, screening creatinine clearance: median 41.2 mL/min, range 18 to 115 mL/min) to gender-matched healthy subjects (n=8, 21-47 years of age) showed a decrease in oral clearance (mean decreased by 50%) resulting in a longer mean half-life (approximately 11 hours, range, 7 to 20 hours) and an increase in the mean C_{max} (approximately 40%). In this study, blood pressure measurements suggested that increased exposure in renally-impaired subjects may be associated with increases in blood pressure which are larger than those seen in healthy subjects receiving the same dose (5 mg) (see DOSAGE AND ADMINISTRATION).

STORAGE AND STABILITY

TEVA-NARATRIPTAN tablets should be stored at room temperature (between 15-30°C).

DOSAGE FORMS, COMPOSITION AND PACKAGING

Availability of Dosage Form

TEVA-NARATRIPTAN 1 mg tablet: Light gray, D-shaped, film-coated tablet, engraved

with 93 on one side and 8522 on the other side. Available in unit dose blisters of 8 and 100 tablets

and bottles of 60 tablets.

TEVA-NARATRIPTAN 2.5 mg tablet: Green, D-shaped, film-coated tablet, engraved with

93 on one side and 8523 on the other side.

Available in unit dose blisters of 8 and 100 tablets

and bottles of 60 tablets.

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Composition

TEVA-NARATRIPTAN tablets contain either 1 mg or 2.5 mg of Naratriptan base, as the hydrochloride salt and the following non-medicinal ingredients: Croscarmellose Sodium, FD&C Blue #1, Hydroxypropyl Methylcellulose, Iron Oxide Black, Iron Oxide Yellow, Lactose Monohydrate, Magnesium Stearate, Microcrystalline Cellulose, Polyethylene Glycol, Polyvinyl Alcohol, Talc and Titanium Dioxide.

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PART II: SCIENTIFIC INFORMATION

PHARMACEUTICAL INFORMATION

Drug Substance

Proper name: naratriptan hydrochloride

Chemical name: N-Methyl-3-(1-Methyl-4-piperidinyl)-1H-indole-5-ethane

sulphonamide mono hydrochloride

Molecular formula: $C_{17}H_{25}N_3SO_2 \cdot HCI$

Molecular mass: 371.93

Structural formula:

Physicochemical properties: Naratriptan hydrochloride is an off-white to pale yellow

crystalline powder. It is freely soluble in dimethyl sulfoxide and slightly soluble in methanol. It has a pKa of 12.65 and

a pH of 6.40.

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CLINICAL TRIALS

Comparative Bioavailability

A randomized, two-way crossover, single-dose, blinded study to evaluate the bioequivalence of a test tablet formulation of naratriptan hydrochloride (2.5 mg), compared to an equivalent dose of a commercially available reference drug product (Amerge[®], GlaxoSmithKline, Canada) in 33 fasted, healthy male and female adult volunteers.

Table 4

	un	nn Hydrochloride (1 x 2 From measured data corrected for potency Geometric Mean	7			
Parameter	Test*	rithmetic Mean (CV%) Reference [†]	% Ratio of Geometric Means	90% Confidence Interval		
AUC _T (pg•h/mL)	90053.86 91950.70 (19.92)	87875.61 89790.12 (20.83)	102.48	99.05 – 106.02		
AUC _I (pg•h/mL)	94213.13 96202.70 (20.03)	92727.66 94684.79 (20.61)	101.60	98.52 – 104.78		
C _{max} (pg/mL)	9781.36 10061.52 (23.73)	9058.89 9352.12 (25.48)	107.98	102.12 – 114.17		
T _{max} [§] (h) 2.35 (43.07) 2.41 (39.67)						
T _{1/2} (h)	6.90 (13.48)	7.40 (16.39)				

Teva-Naratriptan 2.5 mg (Teva Canada Limited, Canada)

Therapeutic Clinical Trials

Four double-blind, placebo-controlled, dose-ranging clinical trials evaluated the safety and efficacy of naratriptan hydrochloride at oral doses ranging from 0.1 to 10 mg in a total of 3160 adult patients with migraine attacks characterized by moderate or severe pain. The minimal effective dose was 1.0 mg. In three of the four clinical trials, a higher overall rate of headache relief was achieved with a 2.5 mg dose. Single doses of 5 mg and higher are not recommended due to an increased incidence of adverse events. Onset of significant headache relief (defined as no or mild pain) became apparent at 60 - 120 minutes after these doses. Naratriptan hydrochloride also relieved the nausea, phonophobia and photophobia associated with migraine attacks.

The following table shows the 4 hour efficacy results obtained for the recommended doses of naratriptan hydrochloride in 2 of the 4 dose-ranging efficacy studies. In Study 1, patients were randomized to receive placebo or a particular dose of naratriptan hydrochloride for the treatment of a single migraine attack according to a parallel group design, whereas, in Study 2, patients were randomized to receive each of the treatments for separate migraine attacks according to a

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[†] AMERGE® 2.5 mg, GlaxoSmithKline Inc. Canada, (purchased in Canada)

[§] Expressed as the arithmetic mean (CV%) only

crossover design. In both studies, patients who achieved headache relief at 240 minutes post-dose, but experienced a worsening of severity between 4 and 24 hours post-dosing were permitted to take a second dose of double-blind medication identical to the first.

Table 5 Results at 240 Minutes Post First Dose

Parameter	Study 1			Study 1 Study 2		
	Placebo (n=107)	Naratriptan hydrochloride 1 mg (n=219)	Naratriptan hydrochloride 2.5 mg (n=209)	Placebo (n=602)	Naratriptan hydrochloride 1 mg (n=595)	Naratriptan hydrochloride 2.5 mg (n=586)
Pain relief $(0/1)^1$	27%	52%*	66%*†	33%	57%*	68%*†
Pain free $(0)^2$	10%	26%*	43%*†	15%	33%*	45%*
Nausea free	56%	71% °	77% °	54%	69%*	75%*
Photophobia free	34%	57%°	67%°	33%	53%*	61%*
Phonophobia free	#	‡	^	36%	55%*	65%*
Clinical disability $(0/1)^3$	49%	62% °	72%°	50%	70%*	76%*

Pain relief is defined as a reduction in headache severity from grade 3 or 2 (severe or moderate) to grade 1 or 0 (mild or no pain).

Significant headache relief was sustained over 24 hours. Data from four placebo controlled studies (n=3160) showed that of the patients who achieved headache relief with naratriptan hydrochloride tablets 2.5 mg, 72% to 83% did not experience recurrence of headache between 4 and 24 hours post-dosing.

Subgroup analyses of the overall population of patients participating in the placebo-controlled trials indicate that the efficacy of naratriptan hydrochloride was unaffected by migraine type (with/without aura), gender, oral contraceptive use or concomitant use of common migraine prophylactic drugs (e.g., beta-blockers, calcium channel blockers, tricyclic antidepressants). In a long-term, repeated dose, open study of 417 patients (all were initiated on a 2.5 mg dose of naratriptan hydrochloride but were given the option to titrate down to a 1 mg dose if 2.5 mg was not well tolerated), a total of 15,301 attacks were treated (mean number of treated attacks/patient of 36 for the 2.5 mg dose and 8 for the 1 mg dose) over a period of up to 12 months. Headache response was sustained (as judged by the proportion of attacks treated with naratriptan hydrochloride resulting in headache relief). The median percentage of attacks per patient requiring a second dose for headache recurrence was 8%. Of the 417 patients treating attacks, 10 patients opted for a dosage reduction.

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² Pain free is defined as a headache severity score of 0 (no pain).

³ Clinical disability is measured on a 4-point scale (0=able to function normally, 1=ability mildly impaired, 2=ability severely impaired, 3=bed rest required).

[‡] photophobia and phonophobia collected as one measure.

^{*} p<0.01 versus placebo.

[†] p<0.01 versus naratriptan hydrochloride 1 mg. Note comparisons were not performed for any parameter other than pain relief and pain free in study 1 and for pain relief in study 2.

[•] Statistical comparisons were not performed.

DETAILED PHARMACOLOGY

Animal

Naratriptan has been shown to have a high affinity for human recombinant 5-HT $_{1B}$ (pKi=8.7) and 5-HT $_{1D}$ (pKi=8.3) receptors. Naratriptan appears to act as an agonist at these receptors, causing selective vasoconstriction of isolated intracranial blood vessels from dogs in *in vitro* models (ED $_{50}$ =0.07-0.11 μ M). In anaesthetized dogs, naratriptan treatment was associated with a dose-dependent decrease in carotid arterial blood flow in association with an increase in carotid arterial vascular resistance. The cumulative dose required to produce 50% of its own maximum vasoconstriction was 19 μ g/kg i.v. Naratriptan was also associated with increases in vascular resistance in the femoral, renal, vertebral and coronary artery beds, although these effects were less than at the cranial artery.

Naratriptan caused vasoconstriction of isolated coronary arteries obtained from anaesthetized monkeys (ED $_{50}$ =30-47 nM) and from humans (ED $_{50}$ =170 nM) undergoing heart transplantation. In addition, naratriptan inhibits plasma protein extravasation from blood vessels in the dura following trigeminal nerve stimulation in anaesthetized rats resulting in a decrease of the neurogenic inflammation response (ID $_{50}$ =4.1 μ g/kg i.v.). In anaesthetized cats, naratriptan (30-100 μ g/kg i.v.) gains access to the central nervous system (CNS) and inhibits trigeminal nerve firing. Naratriptan does not exert a generalized analgesic effect.

In rats receiving oral (50 mg/kg) or intravenous (24 mg/kg) naratriptan, the main acute effects consisted of behavioural depression. In dogs receiving the drug by means of oral (1 mg/kg) or intravenous (0.3 mg/kg) routes, the predominant acute effects consisted of mydriasis, hind limb stiffness, increased barking and tachycardia. Effects seen in the rate occurred at exposures around 40 (oral, based on AUC) and 400 (intravenous, based on C_{max}) times that seen in humans following a single 5 mg (tablet) dose; whilst the main effects in the dog occurred at exposures around 5 (oral, based on AUC) and 11 (intravenous, based on C_{max}) times that seen in humans.

No evidence was found to suggest that naratriptan would interfere with pentobarbitone metabolism; nor was it seen to produce symptoms characteristic of 5-HT behavioural syndrome when administered together with a monoamine oxidase inhibitor (pargyline), a 5-HT reuptake inhibitor (fluoxetine) or lithium.

The absorption, distribution and excretion of naratriptan are similar in rats, mice, rabbits, dogs and humans. Oral bioavailability has been determined to be 39% in the rat and 68% in the dog. The time to peak plasma concentrations following oral administration varies from less than 1 hour in the dog to 3 to 4 hours in the rat. The elimination half-life ranges from 0.7 hours in the rabbit to 4.6 hours in the mouse.

The drug undergoes limited metabolism with unchanged naratriptan being the predominant plasma component in all species studied, as well as the major urinary component in humans, dogs, rats and mice. The majority of metabolites have been characterized and are shown to be excreted rapidly in the urine. The metabolism of naratriptan in humans is most similar to that in the dog, with the N-oxide of naratriptan as the major metabolite. None of the metabolites tested,

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including the N-oxide, demonstrated any significant pharmacological activity at vascular 5-HT₁ receptors.

Plasma protein binding was low in all species studied (21-35%). Drug-related material was widely distributed throughout most tissues following oral or intravenous administration to the rat with highest concentrations being observed in the gastrointestinal tract, liver, kidneys and bladder. Only trace concentrations were detected in the brain and central nervous system following intravenous dosing. Following oral dosing, radioactive drug-related material in central nervous tissues was undetectable. Low levels of radioactivity persisted in the eyes (of pigmented animals, probably associated with melanin), testes, liver and kidney (and in some cases, bladder and thyroid) at later time-points (up to 168 hours after dosing). Radioactive drug-related material was still detected in the eyes 3 months post-administration (last time point studied).

Drug-related material has been shown to cross the placenta in pregnant rats and rabbits. Following oral administration, the ratio of drug-related radioactivity in fetal tissue to maternal plasma ranged from 0.2 to 1.9 in rats and 0.3 to 0.7 in rabbits. Naratriptan is likewise distributed into the milk of lactating rats. At 2 hours post oral gavage dosing levels in milk were 3.5 times higher than maternal plasma levels.

Following oral administration to the dog, approximately 65-75% of the dose was excreted in the urine and 22-32% in the feces. For mice and rats, urinary excretion accounted for 30-40% of the dose while 50-60% was excreted in the feces.

TOXICOLOGY

Acute Toxicology

Naratriptan was shown to have low acute toxicity. Mice and rats of both sexes appeared equally sensitive to the effects of naratriptan. Maximum oral non-lethal dosages of >1000 mg/kg and approximately 750 mg/kg were established for the mouse and rat, respectively. Maximum non-lethal dosages for both species were in the range of \geq 180 to 225 mg/kg and \geq 30 to 40 mg/kg for the subcutaneous and intravenous routes, respectively.

Clinical signs were indicative of behavioural depression and effects on the central nervous system, consistent with finding seen with sumatriptan. Target organ toxicity was seen in the testes/epididymides at an oral dose of 340 mg/kg, in the rat only. All treatment-related effects occurred at dosages significantly greater than the maximum oral dose proposed for clinical use (2 x 2.5 mg/day).

Long-Term Toxicology and Carcinogenicity

Naratriptan has low acute toxicity and is well tolerated in repeat dose studies in the rat and dog at dosages, and resulting systemic exposures (based on AUC), considerably higher than those achieved in humans.

In rats, increased mortality was observed following repeat oral administration for up to 29 weeks at a systemic exposure ranging from approximately 400 to 1000 times that seen in humans following an oral (tablet) dose of 5 mg. At the same exposure level, effects on the testes and

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epididymides, a slight reduction in prostate weight, changes in the female reproductive tract (atrophic or cystic ovaries and vaginal anoestrus) and atrophy of the granular ducts of the submandibular salivary glands (predominantly in females) were observed. The effects in females, together with the changes in oestrus cycles seen in the oral fertility study, are considered indicative of a disturbance in hormonal balance. The effects were mild and with the exception of the testicular/epididymal atrophy, showed recovery after a treatment-free period. At the no effect level for these findings, systemic exposure was approximately 70 to 100 times that seen in humans following an oral (tablet) dose of 5 mg.

In the dog, two high dosage (5 mg/kg/day) males were killed towards the end of the oral 12 month study following repeated convulsive episodes, but neurological and historical examination revealed no significant findings. The beagle is recognized as having a high incidence of primary epilepsy and no similar findings were seen in the other animals at this dosage. Transient changes in the pre-corneal tear film were observed following repeated oral or intravenous administration. These effects were considered to be pharmacologically mediated and have been seen previously with sumatriptan. They were not associated with any histological damage to the cornea or surrounding tissue.

In a carcinogenicity study, naratriptan (90 mg/kg/day) caused an increased incidence of proliferative lesions of the thyroid gland in the rat only. At the maximum oral dosage with no oncogenic effect (20 mg/kg/day), systemic exposure was up to approximately 100 times that seen in humans following an oral (tablet) dose of 5 mg. In mice, an increased incidence of hypophyseal adenoma was reported in females and Harderian gland adenoma in males at the intermediate dosage only (65 mg/kg/day). Naratriptan was therefore considered not to be oncogenic in the mouse up to a dosage of 200 mg/kg/day.

Mutagenicity

Naratriptan, or naratriptan spiked with certain synthetic or degradation impurities, was not mutagenic in any of the *in vitro* or *in vivo* systems used, presenting no detectable genetic hazard or clastogenic effect. Naratriptan can be nitrosated *in vitro* in the World Health Organization Nitrosation Assay Procedure test to form an N-nitroso derivative, which is a bacterial mutagen. Exposure to the N-nitroso derivative of naratriptan was demonstrated in the stomach of nitrite-supplemented rats in a specially designed carcinogenicity study. However, the generation *in situ* of this nitrosated product was not associated with any carcinogenic potential in the liver or gastrointestinal tract.

Reproduction and Teratology

In the oral fertility study in rats, naratriptan resulted in maternal toxicity, which was associated with increased pre-implantation loss, fetal growth retardation, delayed fetal ossification and reduced survival of F_1 pups at the high dosage (340 mg/kg/day). However, overall reproductive performance of the F_0 and F_1 generations and development of the F_1 and F_2 generations were unaffected by treatment with naratriptan.

Naratriptan was not teratogenic in the rat or rabbit. In the rat, maternal toxicity was seen, which was accompanied by slight increases in early post-implantation loss and minor skeletal effects. In the Dutch rabbit, maternal toxicity was accompanied by increases in pre- and post-implantation

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loss and at all dosages (1, 5 and 30 mg/kg p.o.), minor skeletal effects and variations in the position of the cervico-thoracic vasculature. In the New Zealand White rabbit, however, the embryonic loss and effects on the fetal vasculature were not reproducible despite exposure to identical doses, and maternal toxicity was accompanied only by an increased incidence of minor skeletal variants.

In the peri-/post-natal study, maternal toxicity, which was accompanied by reduced survival of F_1 pups, was seen at the high dosage (340 mg/kg/day), together with some transient effects on early post-natal development, which reversed after weaning. However, parturition, outcome of pregnancy, reproductive performance of the F_1 generation and F_2 embryonic development were unaffected by treatment with naratriptan.

Local Tolerance

In local tolerance studies, naratriptan hydrochloride was slightly irritant to the rabbit eye and produced no significant irritant reactions, when applied topically to intact skin in the guinea pig, but was slightly irritant on abraded skin. The sensitizing potential of the compound in the guinea pig, if any, was considered to be very low. In addition, neither naratriptan hydrochloride nor a naratriptan-protein mixture showed any activity in either an active systemic anaphylaxis test or passive cutaneous anaphylaxis test in guinea pigs.

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PART III: CONSUMER INFORMATION

PrTEVA-NARATRIPTAN

naratriptan hydrochloride tablets

This leaflet is part III of a three-part "Product Monograph" published when TEVA-NARATRIPTAN was approved for sale in Canada and is designed specifically for Consumers. Please read this leaflet carefully before you take TEVA-NARATRIPTAN Tablets. This leaflet is a summary and will not tell you everything about TEVA-NARATRIPTAN. Please do not throw away this leaflet until you have finished your medicine. You may need to read it again. Contact your doctor or pharmacist if you have any questions about the drug.

ABOUT THIS MEDICATION

The name of your medicine is TEVA-NARATRIPTAN Tablets. It can be obtained only by prescription from your doctor. The decision to use TEVA-NARATRIPTAN Tablets 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 postmenopausal or a male over 40), you should tell your doctor, who should evaluate you for heart disease, in order to determine if TEVA-NARATRIPTAN is appropriate for you.

What the medication is used for:

TEVA-NARATRIPTAN Tablets are intended to relieve your migraine headache and other associated symptoms of a migraine attack. TEVA-NARATRIPTAN Tablets should not be used continuously to prevent or reduce the number of attacks you experience. Use TEVA-NARATRIPTAN Tablets only to treat an actual migraine headache attack.

What it does:

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

When it should not be used:

Do not take TEVA-NARATRIPTAN if you:

 are allergic to naratriptan or any of the ingredients (see What the nonmedicinal ingredients are section).

- have heart problems or a history of heart problems, such as heart failure or chest pains (*angina*) or have had a heart attack.
- have had a stroke or a mini-stroke (transient ischemic attack or TIA).
- have a circulation problem in your legs that cause cramp-like pains when you walk (peripheral vascular disease).
- have uncontrolled or severe high blood pressure.
- have severe liver or kidney disease.
- have taken another migraine medication such as IMITREX[®] (sumatriptan), ZOMIG[®] (zolmitriptan), MAXALT[®] (rizatriptan), or AXERT[®] (almotriptan) or ergotamine-type medications such as ergotamine, dihydroergotamine or methysergide within the last 24 hours.

TEVA-NARATRIPTAN should <u>not</u> be used to relieve pain other than from a migraine headache.

What the medicinal ingredient is:

naratriptan (as naratriptan hydrochloride)

What the nonmedicinal ingredients are:

Croscarmellose sodium, FD&C Blue #1, hydroxypropyl methylcellulose, iron oxide black, iron oxide yellow, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polyethylene glycol, polyvinyl alcohol, talc and titanium dioxide.

What dosage forms it comes in:

TEVA-NARATRIPTAN is available as 1 mg or 2.5 mg tablet.

WARNINGS AND PRECAUTIONS

TEVA-NARATRIPTAN is not recommended for people over 65 years of age or for children under the age of 18.

BEFORE you use TEVA-NARATRIPTAN, talk to your doctor or pharmacist if you:

- have or have had blood vessel problems, including ischemic bowel disease
- are pregnant, think you might be pregnant, you are trying to become pregnant, you are using inadequate contraception, or you are breastfeeding
- have or had any pain or tightness in the chest (which may or may not spread to your neck, jaw, or upper arm), heart or blood vessel

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disease, angina, shortness of breath, or irregular heartbeats

- have had a heart attack, stroke or mini-stroke (also called a transient ischemic attack or TIA)
- 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 postmenopausal or a male over 40)
- have ever had to stop taking this or any other medication because of an allergy or other problems
- have or have had epilepsy or seizures
- suffer from peripheral vascular disease (e.g., pain in the back of the legs while walking) or are prone to cold and/or pale or purplish hands and feet
- are taking any other migraine medications such as IMITREX[®] (sumatriptan), ZOMIG[®] (zolmitriptan), MAXALT[®] (rizatriptan), or AXERT[®] (almotriptan), which may contain any triptan/5-HT₁ agonists, or ergotamine, dihydroergotamine, or methysergide
- are taking any antidepressants classed as selective serotonin reuptake inhibitors (SSRIs), serotonin noradrenaline reuptake inhibitors (SNRIs) or other medications for depression
- have ever experienced numbness or have had difficulty moving one side of your body when you have a headache
- had or have any disease of the kidney or liver
- experience a headache that is different from your usual migraine attacks

Continuous use of TEVA-NARATRIPTAN

Taking TEVA-NARATRIPTAN too often may make your headaches worse or more frequent. If this happens to you, tell your doctor. You may have to stop taking TEVA-NARATRIPTAN.

If you are not sure whether you should take TEVA-NARATRIPTAN, contact your doctor or pharmacist.

Driving and using machines

TEVA-NARATRIPTAN may make you drowsy. Do not drive or operate machinery unless you are feeling alert.

The use of TEVA-NARATRIPTAN During Pregnancy:

Do not use TEVA-NARATRIPTAN if you are pregnant, think you might be pregnant, are trying to become pregnant, or are not using adequate contraception, unless you have discussed this with your doctor.

INTERACTIONS WITH THIS MEDICATION

Tell your doctor or pharmacist if you're taking any other medicines, if you have taken any recently, or if you start taking new ones. This includes medicines you've bought without a prescription.

Some medicines must not be taken with TEVA-NARATRIPTAN and others may cause adverse effects if they're taken with TEVA-NARATRIPTAN. These include:

- SSRIs (Selective Serotonin Reuptake Inhibitors) or SNRIs (Serotonin-Noradrenaline Reuptake Inhibitors) used to treat depression. A lifethreatening condition called serotonin syndrome can happen when medicines called triptans, such as TEVA-NARATRIPTAN, and medicines used to treat depression and mood disorders called SSRIs and 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.
- Other 5-HT1 receptor agonists, such as sumatriptan used to treat migraine.
- Ergotamine also used to treat migraine, or similar medicines such as methysergide.

Tell your doctor or pharmacist if you are taking any of these.

PROPER USE OF THIS MEDICATION

REMEMBER: This medicine was prescribed only for <u>YOU</u>. Only a physician knows who can use it safely. Never give it to someone else. It may harm them, even if their symptoms are the same as yours.

Usual Dose:

For adults, the usual dose is a single 1 or 2.5 mg tablet (as recommended by your doctor) taken whole with water. The tablet should be taken as soon as your migraine appears, but may be taken anytime after the headache starts. A second tablet may be taken if your headache returns or if you need more relief, but not sooner than 4 hours following the first tablet.

For an individual attack, if you have no response to the first tablet, do not take a second tablet without first talking to your doctor. Do not take more than a total of 5 mg in any 24-hour period.

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IMPORTANT: PLEASE READ

If you are taking any other migraine medicines, check with your doctor first before taking TEVA-NARATRIPTAN.

If you have kidney or liver disease, take as directed by your doctor.

Overdose:

In case of drug overdose, contact a health care practitioner, hospital emergency department or regional Poison Control Centre immediately, even if there are no symptoms.

SIDE EFFECTS AND WHAT TO DO ABOUT THEM

Like all medicines, TEVA-NARATRIPTAN can cause some side effects. You may not experience any of them. For most patients, these side effects are likely to be minor and temporary. However, some may be serious. Consult your doctor if you experience these or other side effects.

Common side effects – these may affect up to 1 in 10 people:

- Ear, nose and throat infections
- Nausea, vomiting
- Drowsiness
- Dizziness
- Headache
- Dry mouth
- Feeling tired or unwell

Uncommon side effects – these may affect up to 1 in 100 people:

- Rise in blood pressure
- Fainting, light-headedness
- Tremor
- Difficulty sleeping
- Nose, throat and sinus infection
- Urinary tract infections
- Feeling full or bloated
- Stomach pain or discomfort
- Diarrhea
- Constipation
- Muscle or joint pain, muscle cramps, or inflammation of the joints
- Feeling anxious or depressed
- Difficulty with learning, perception, memory and problem solving

- Increased sense of touch
- Skin effects such as rash, itchiness, bumpiness and sensitivity to light
- Sweating
- Feeling thirsty
- Sensitivity to sound

Rare side effects – these may affect up to 1 in 1000 people:

- Nasal congestion (allergic rhinitis)
- Eye problems such as dry eyes, blurred vision and sensitivity to light
- Acid reflux
- Hemorrhoids
- Itchy or irritated mouth
- Ulcers
- Muscle or joint stiffness
- Muscle twitches
- Low blood pressure
- Poor balance or coordination, slowed movement
- Lack of energy or alertfulness, confusion
- Aggression, agitation or detachment
- Hair loss
- Red. flushed or inflamed skin
- Ear effects such as infection, difficulty hearing, ringing sensation
- Sudden, compelling urge to urinate
- Swelling of the glands that produce saliva
- Changes in sense of taste

SERIOUS SIDE EFFECTS, HOW OFTEN THEY HAPPEN AND WHAT TO DO ABOUT THEM					
Symptom / effect		Talk with your doctor or pharmacist		Stop taking drug and	
		Only if severe	In all cases	call your doctor or pharmacist	
Common	Unusual sensations, including numbness, tingling, feeling hot or pain in any part of the body including chest, neck, jaw, and throat	✓			
Uncommon	Unusual fast heartbeats, or a feeling of irregular and/or forceful heartbeats; heaviness, pressure or tightness in any	√			

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	part of the body		
	including chest and		
	throat; feeling hot		
	or cold		
Rare	Unusually slow	,	
	heartbeats	✓	
	Unexpected or		
	prolonged bleeding,		
	including from		
	your ears, nose,		
	throat and eyes or		
	in the brain; blood		
	in the urine;		
	convulsions; pain		
	or difficulty when		✓
	swallowing;		
	allergic reactions		
	(shortness of		
	breath, sudden		
	wheeziness,		
	swelling of eyelids,		
	face of lips, lumpy		
	skin, rash or hives)		
Very rare	Heart attack or		
	symptoms of a		
	heart attack (chest		
	pain, shortness of		
	breath); lower		
	abdominal pain		
	and/or severe rectal		
	bleeding (colonic		
	ischemia);		✓
	numbness, tingling,		
	cold or pain in the		
	hands or feet; pale		
	or purple		
	discolouration;		
	stroke or mini-		
	stroke (transient		
	ischemic attack)		

This is not a complete list of side effects. For any unexpected effects while taking TEVA-NARATRIPTAN, contact your doctor or pharmacist.

HOW TO STORE IT

TEVA-NARATRIPTAN should be stored at room temperature (between 15 - 30°C).

Keep out of the reach and sight of children.

If your medication has expired, do not use it. Throw it away.

If your doctor decides to stop treatment with TEVA-NARATRIPTAN, do not keep any leftover medication unless your doctor tells you to.

Reporting Side Effects

You can help improve the safe use of health products for Canadians by reporting serious and unexpected side effects to Health Canada. Your report may help to identify new side effects and change the product safety information.

3 ways to report:

- Online at MedEffect (http://hc-sc.gc.ca/dhp-mps/medeff/index-eng.php);
- By calling 1-866-234-2345 (toll-free);
- By completing a Consumer Side Effect Reporting Form and sending it by:
 - Fax to 1-866-678-6789 (toll-free), or
 - Mail to: Canada Vigilance Program Health Canada Postal Locator 1908C Ottawa, ON K1A 0K9

Postage paid labels and the Consumer Side Effect Reporting Form are available at MedEffect (http://hc-sc.gc.ca/dhp-mps/medeff/index-eng.php).

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 TEVA-NARATRIPTAN:

- Talk to your healthcare professional
- Find the full Product Monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website (http://www.hc-sc.gc.ca/); the manufacturer's website http://www.tevacanada.com; or by calling 1-800-268-4127 ext. 3; or email druginfo@tevacanada.com.

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