ALMOTRIPTAN MALATE- almotriptan tablet, film coated Mylan Pharmaceuticals Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

ALMOTRIPTAN tablets, for oral use Initial U.S. Approval: 2001

------ INDICATIONS AND USAGE

Almotriptan tablets are a $5H\Gamma_{1B/1D}$ receptor agonist (triptan) indicated for:

- Acute treatment of migraine attacks in adults with a history of migraine with or without aura (1.1)
- Acute treatment of migraine headache pain in adolescents age 12 to 17 years with a history of migraine with or without aura, and who have migraine attacks usually lasting 4 hours or more (1.1)

Important Limitations:

- Use only after a clear diagnosis of migraine has been established (1.2)
- In adolescents age 12 to 17 years, efficacy of almotriptan tablets on migraine-associated symptoms was not established (1.2)
- Not intended for the prophylactic therapy of migraine (1.2)
- Not indicated for the treatment of cluster headache (1.2)

------DOSAGE AND ADMINISTRATION ------

- Adults and adolescents age 12 to 17 years: 6.25 mg or 12.5 mg single dose; may repeat after 2 hours if headache returns; benefit of second dose in patients who have failed to respond to first dose has not been established; maximum daily dose 25 mg (2.1)
- Patients with hepatic or severe renal impairment: 6.25 mg starting dose; maximum daily dose 12.5 mg (2.2, 2.3)

• Ischemic heart disease, coronary artery vasospasm, or other significant underlying cardiovascular disease (4.1)

- Cerebrovascular syndromes (e.g., history of stroke or TIA) (4.2)
- Peripheral vascular disease (including ischemic bowel disease) (4.3)
- Uncontrolled hypertension (4.4)
- Do not use almotriptan tablets within 24 hours of an ergotamine-containing, or ergot-type medication, or of another 5-HT₁ agonist, e.g., another triptan (4.5, 4.6)
- Hemiplegic or basilar migraine (4.7)
- Known hypersensitivity to almotriptan tablets (4.8)

------ WARNINGS AND PRECAUTIONS

- Serious adverse cardiac events, including acute myocardial infarction and life-threatening disturbances of cardiac rhythm (5.1)
- It is strongly recommended that almotriptan tablets not be given to patients in whom unrecognized coronary artery disease (CAD) is predicted by the presence of risk factors. In very rare cases, serious cardiovascular events have been reported in association with almotriptan tablet use in the absence of known cardiovascular disease. If almotriptan tablets are considered, patients should first have a cardiovascular evaluation. If the evaluation is satisfactory, first dose should take place in a physician's office setting (5.1)
- Sensations of pain, tightness, pressure, and heaviness in the chest, throat, neck, and jaw: generally not associated with myocardial ischemia, but patients with signs or symptoms suggestive of angina should be evaluated for the presence of CAD (5.2)
- Cerebrovascular events, some fatal (5.3)
- Gastrointestinal ischemic events and peripheral vasospastic reactions (e.g., Raynaud's syndrome) (5.4)

- Potentially life-threatening serotonin syndrome, particularly in combination with selective serotonin reuptake inhibitors (SSRIs) or serotonin norepinephrine reuptake inhibitors (SNRIs). Monitor patients for neurologic changes and gastrointestinal symptoms if concomitant treatment is clinically warranted (5.5, 7.3)
- Medication overuse headache: Detoxification may be necessary (5.6)
- Increase in blood pressure, very rarely associated with significant clinical events (4.4, 5.7)
- Use with caution in patients with a known hypersensitivity to sulfonamides (5.8)

------ADVERSE REACTIONS ------

The most common adverse reactions ($\geq 1\%$ and greater than placebo) are:

- In adults: nausea, dry mouth and paresthesia (6.1)
- In adolescents: dizziness, somnolence, headache, paresthesia, nausea and vomiting (6.2)

To report SUSPECTED ADVERSE REACTIONS, contact Mylan Pharmaceuticals Inc. at 1-877-446-3679 (1-877-4-INFO-RX) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

------ DRUG INTERACTIONS -----

- Do not use almotriptan tablets and ergotamine-containing or ergot-type medications within 24 hours of each other (4.5, 7.1)
- Do not use almotriptan tablets and other 5-HT₁ agonist (e.g., triptans) within 24 hours of each other (4.6, 7.2)
- SSRI or SNRI: life-threatening serotonin syndrome reported during combined use with triptans (5.5, 7.3)
- Ketoconazole: use single dose of almotriptan tablets 6.25 mg; maximum almotriptan tablets daily dose 12.5 mg (7.4)

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

- Pregnancy: based on animal data, may cause fetal harm (8.1)
- Nursing mothers: use almotriptan tablets with caution (8.3)
- Pediatric use: almotriptan tablets have not been studied in children under 12 years (8.4)
- Geriatric use: insufficient safety and efficacy data; use with caution, usually starting with the 6.25 mg dose (8.5)
- Hepatic impairment: use single 6.25 mg tablet as a starting dose; maximum daily dose 12.5 mg (2.2, 8.6)
- Severe renal impairment: use single 6.25 mg tablet as a starting dose; maximum daily dose 12.5 mg (2.3, 8.7)

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

Revised: 5/2017

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1 INDICATIONS AND USAGE

1.1 Acute Treatment of Migraine Attacks

Adults

Almotriptan tablets (almotriptan malate) are indicated for the acute treatment of migraine attacks in patients with a history of migraine with or without aura.

Adolescents Age 12 to 17 Years

Almotriptan tablets are indicated for the acute treatment of migraine headache pain in patients with a history of migraine attacks with or without aura usually lasting 4 hours or more (when untreated).

1.2 Important Limitations

Almotriptan tablets should only be used where a clear diagnosis of migraine has been established. If a patient has no response for the first migraine attack treated with almotriptan tablets, the diagnosis of migraine should be reconsidered before almotriptan tablets are administered to treat any subsequent attacks.

In adolescents age 12 to 17 years, efficacy of almotriptan tablets on migraine-associated symptoms (nausea, photophobia, and phonophobia) was not established. Almotriptan tablets are not intended for the prophylactic therapy of migraine or for use in the management of hemiplegic or basilar migraine [see Contraindications (4.7)].

Safety and effectiveness of almotriptan tablets have not been established for cluster headache which is present in an older, predominantly male population.

2 DOSAGE AND ADMINISTRATION

2.1 Acute Treatment of Migraine Attacks

The recommended dose of almotriptan tablets (almotriptan malate) in adults and adolescents age 12 to 17 years is 6.25 mg to 12.5 mg, with the 12.5 mg dose tending to be a more effective dose in adults. As individuals may vary in their response to different doses of almotriptan tablets, the choice of dose should be made on an individual basis.

If the headache is relieved after the initial almotriptan tablet dose but returns, the dose may be repeated after 2 hours. The effectiveness of a second dose has not been established in placebo-controlled trials. The maximum daily dose should not exceed 25 mg. The safety of treating an average of more than four migraines in a 30-day period has not been established.

2.2 Hepatic Impairment

The recommended starting dose of almotriptan tablets in patients with hepatic impairment is 6.25 mg. The maximum daily dose should not exceed 12.5 mg over a 24-hour period [see Warnings and Precautions (5.9) and Clinical Pharmacology (12.3)].

2.3 Renal Impairment

The recommended starting dose of almotriptan tablets in patients with severe renal impairment is 6.25 mg. The maximum daily dose should not exceed 12.5 mg over a 24-hour period [see Warnings and Precautions (5.9) and Clinical Pharmacology (12.3)].

3 DOSAGE FORMS AND STRENGTHS

Almotriptan Tablets, USP are available containing 8.75 mg or 17.50 mg of almotriptan malate, USP

equivalent to 6.25 mg or 12.5 mg of almotriptan, respectively.

- The 6.25 mg tablets are white to off-white, film-coated, round, unscored tablets debossed with **M** on one side of the tablet and **AL1** on the other side.
- The 12.5 mg tablets are white to off-white, film-coated, round, unscored tablets debossed with **M** on one side of the tablet and **AL2** on the other side.

4 CONTRAINDICATIONS

4.1 Is chemic or Vasos pastic Coronary Artery Disease, or Other Significant Underlying Cardiovas cular Disease

Do not use almotriptan tablets (almotriptan malate) in patients with ischemic heart disease (angina pectoris, history of myocardial infarction, or documented silent ischemia), or in patients who have symptoms or findings consistent with ischemic heart disease, coronary artery vasospasm, including Prinzmetal's variant angina, or other significant underlying cardiovascular disease [see Warnings and Precautions (5.1)].

4.2 Cerebrovas cular Syndromes

Do not use almotriptan tablets in patients with cerebrovascular syndromes including (but not limited to) stroke of any type as well as transient ischemic attacks [see Warnings and Precautions (5.3)].

4.3 Peripheral Vascular Disease

Do not use almotriptan tablets in patients with peripheral vascular disease including (but not limited to) ischemic bowel disease [see Warnings and Precautions (5.4)].

4.4 Uncontrolled Hypertension

Because almotriptan may increase blood pressure, do not use almotriptan tablets in patients with uncontrolled hypertension [see Warnings and Precautions (5.7)].

4.5 Ergotamine-Containing and Ergot-Type Medications

Do not use almotriptan tablets and ergotamine-containing or ergot-derived medications like dihydroergotamine, ergotamine tartrate, or methysergide within 24 hours of each other [see Drug Interactions (7.1)].

4.6 Concomitant Use with 5-HT₁ Agonists (e.g., Triptans)

Almotriptan tablets and other 5-HT₁ agonists (e.g., triptans) should not be administered within 24 hours of each other [see Warnings and Precautions (5.1) and (5.2)].

4.7 Hemiplegic or Basilar Migraine

Do not use almotriptan tablets in patients with hemiplegic or basilar migraine.

4.8 Hypersensitivity

Almotriptan tablets are contraindicated in patients with known hypersensitivity to almotriptan or any of their inactive ingredients.

5 WARNINGS AND PRECAUTIONS

5.1 Risk of Myocardial Ischemia and Infarction and Other Adverse Cardiac Events

Cardiac Events and Fatalities with 5-HT₁ Agonists

Serious adverse cardiac events, including acute myocardial infarction, have been reported within a few hours following administration of almotriptan tablets (almotriptan malate). Life-threatening disturbances of cardiac rhythm and death have been reported within a few hours following the administration of other triptans. Considering the extent of use of triptans in patients with migraine, the incidence of these events is extremely low.

Almotriptan tablets can cause coronary vasospasm; at least one of these events occurred in a patient with no cardiac history and with documented absence of coronary artery disease. Because of the close proximity of the events to use of almotriptan tablets, a causal relationship cannot be excluded. Patients who experience signs or symptoms suggestive of angina following dosing should be evaluated for the presence of coronary artery disease (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.

Premarketing Experience with Almotriptan Tablets in Adults

Among the 3865 subjects/patients who received almotriptan tablets in premarketing clinical trials, one patient was hospitalized for observation after a scheduled electrocardiogram (ECG) was found to be abnormal (negative T-waves on the left leads) 48 hours after taking a single 6.25 mg dose of almotriptan. The patient, a 48-year-old female, had previously taken three other doses for earlier migraine attacks. Myocardial enzymes at the time of the abnormal ECG were normal. The patient was diagnosed as having had myocardial ischemia and that she had a family history of coronary disease. An ECG performed 2 days later was normal, as was a follow-up coronary angiography. The patient recovered without incident.

Postmarketing Experience with Almotriptan Tablets in Adults

Serious cardiovascular events have been reported in association with the use of almotriptan tablets. The uncontrolled nature of postmarketing surveillance, however, makes it impossible to definitively determine the proportion of the reported cases that were actually caused by almotriptan or to reliably assess causation in individual cases [see Adverse Reactions (6.3)].

Patients with Documented Coronary Artery Disease

Because of the potential of this class of compound (5-HT $_1$ agonists) to cause coronary vasospasm, almotriptan tablets should not be given to patients with documented ischemic or vasospastic coronary artery disease [see Contraindications (4.1)].

Patients with Risk Factors for CAD

It is strongly recommended that almotriptan tablets not be given to patients in whom unrecognized CAD is predicted by the presence of risk factors (e.g., 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, almotriptan tablets should not be administered [see Contraindications (4.1)].

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 almotriptan tablets take place in the setting of a physician's office or similar medically staffed and equipped facility unless the patient has previously received almotriptan tablets. Because cardiac ischemia can occur in the absence of clinical symptoms, consideration should be given to obtaining on the first occasion of

use an ECG during the interval immediately following almotriptan tablets, in these patients with risk factors. It is recommended that patients who are intermittent long-term users of almotriptan tablets and who have or acquire risk factors predictive of CAD, as described above, undergo periodic interval cardiovascular evaluation as they continue to use almotriptan tablets.

The systematic approach described above is intended to reduce the likelihood that patients with unrecognized cardiovascular disease will be inadvertently exposed to almotriptan tablets. The ability of cardiac diagnostic procedures to detect all cardiovascular diseases or predisposition to coronary artery vasospasm is modest at best. Cardiovascular events associated with triptan treatment have occurred in patients with no cardiac history and with documented absence of coronary artery disease.

5.2 Sensations of Pain, Tightness, Pressure in the Chest and/or Throat, Neck, and Jaw

As with other 5-HT $_1$ agonists, sensations of tightness, pain, pressure, and heaviness in the precordium, throat, neck, and jaw have been reported after treatment with almotriptan tablets. Because 5-HT $_1$ agonists may cause coronary 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 occur. Patients shown to have CAD and those with Prinzmetal's variant angina should not receive 5-HT $_1$ agonists [see Contraindications (4.1) and Warnings and Precautions (5.1)].

5.3 Cerebrovas cular Events and Fatalities

Cerebral hemorrhage, subarachnoid hemorrhage, stroke, and other cerebrovascular events have been reported in patients treated with other triptans and some events have resulted in fatalities. In a number of cases, it appeared possible that the cerebrovascular events were primary, the triptan having been administered in the incorrect belief that the symptoms experienced were a consequence of migraine, when they were not. As with other acute migraine therapies, before treating headaches 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. It should be noted that patients with migraine may be at increased risk of certain cerebrovascular events (e.g., stroke, hemorrhage, and transient ischemic attack) [see Contraindications (4.2)].

5.4 Other Vasos pasm-Related Events, Including Peripheral Vascular Ischemia and Colonic Ischemia

Triptans, including almotriptan tablets, may cause vasospastic reactions other than coronary artery vasospasm, such as peripheral and gastrointestinal vascular ischemia with abdominal pain and bloody diarrhea. Very rare reports of transient and permanent blindness and significant partial vision loss have been reported with the use of triptans. Visual disorders may also be part of a migraine attack. Patients who experience symptoms or signs suggestive of decreased arterial flow following the use of any triptan, such as ischemic bowel syndrome or Raynaud's syndrome, are candidates for further evaluation [see Contraindications (4.3)].

5.5 Serotonin Syndrome

The development of a potentially life-threatening serotonin syndrome may occur with triptans, including almotriptan tablets, particularly during combined use with selective serotonin reuptake inhibitors (SSRIs) or serotonin norepinephrine reuptake inhibitors (SNRIs). If concomitant treatment with almotriptan tablets and an SSRI (e.g., fluoxetine, paroxetine, sertraline, fluvoxamine, citalopram, escitalopram) or SNRI (e.g., venlafaxine, duloxetine) 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

5.6 Medication Overuse Headache

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

5.7 Increases in Blood Pressure

As with other triptans, significant elevations in systemic blood pressure have been reported on rare occasions with almotriptan tablet use in patients with and without a history of hypertension; very rarely these increases in blood pressure have been associated with significant clinical events. Almotriptan tablets are contraindicated in patients with uncontrolled hypertension [see Contraindications (4.4)]. In normotensive healthy subjects and patients with hypertension controlled by medication, small, but clinically insignificant, increases in mean systolic (0.21 and 4.87 mm Hg, respectively) and diastolic (1.35 and 0.26 mm Hg, respectively) blood pressure relative to placebo were seen over the first 4 hours after oral administration of 12.5 mg of almotriptan.

An 18% increase in mean pulmonary artery pressure was seen following dosing with another triptan in a study evaluating subjects undergoing cardiac catheterization.

5.8 Hypersensitivity to Sulfonamides

Caution should be exercised when prescribing almotriptan tablets to patients with known hypersensitivity to sulfonamides. The chemical structure of almotriptan contains a sulfonyl group, which is structurally different from a sulfonamide. Cross-sensitivity to almotriptan in patients allergic to sulfonamides has not been systematically evaluated.

5.9 Impaired Hepatic or Renal Function

Almotriptan tablets should be administered with caution to patients with diseases that may alter the absorption, metabolism, or excretion of drugs, such as those with impaired hepatic or renal function [see Dosage and Administration (2.2), (2.3) and Clinical Pharmacology (12.3)].

5.10 Binding to Melanin-Containing Tissues

When pigmented rats were given a single oral dose of 5 mg/kg of radiolabeled almotriptan, the elimination half-life of radioactivity from the eye was 22 days. This finding suggests that almotriptan and/or its metabolites may bind to melanin in the eye. Because almotriptan could accumulate in melanin-rich tissues over time, there is the possibility that it could cause toxicity in these tissues with extended use. However, no adverse retinal effects related to treatment with almotriptan were noted in a 52-week toxicity study in dogs given up to 12.5 mg/kg/day (resulting in exposure [AUC] to parent drug approximately 20 times that in humans receiving the maximum recommended human dose of 25 mg/day). 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.

5.11 Corneal Opacities

Three male dogs (out of a total of 14 treated) in a 52-week toxicity study of oral almotriptan developed slight corneal opacities that were noted after 51 weeks, but not after 25 weeks of treatment. The doses at which this occurred were 2 mg/kg/day, 5 mg/kg/day, and 12.5 mg/kg/day. The opacity reversed after a 4-week drug-free period in the affected dog treated with the highest dose. Systemic exposure (plasma AUC) to parent drug at 2 mg/kg/day was approximately 2.5 times the exposure in humans receiving the

maximum recommended human daily dose of 25 mg. A no-effect dose was not established.

6 ADVERSE REACTIONS

Serious cardiac reactions, including myocardial infarction, have occurred following the use of almotriptan (almotriptan malate) tablets. These reactions are extremely rare and most have been reported in patients with risk factors predictive of CAD. Reactions reported in association with triptans have included coronary artery vasospasm, transient myocardial ischemia, myocardial infarction, ventricular tachycardia, and ventricular fibrillation [see Contraindications (4.1) and Warnings and Precautions (5.1)].

The following adverse reactions are discussed in more detail in other sections of the labeling:

- Risk of Myocardial Ischemia and Infarction and Other Adverse Cardiac Events [see Warnings and Precautions (5.1)]
- Sensations of Pain, Tightness, Pressure in the Chest and/or Throat, Neck, and Jaw [see Warnings and Precautions (5.2)]
- Cerebrovascular Events and Fatalities [see Warnings and Precautions (5.3)]
- Other Vasospasm-Related Events, Including Peripheral Vascular Ischemia and Colonic Ischemia [see Warnings and Precautions (5.4)]
- Serotonin Syndrome [see Warnings and Precautions (5.5)]
- Increases in Blood Pressure [see Warnings and Precautions (5.7)]

Adverse events were assessed in controlled clinical trials that included 1840 adult patients who received one or two doses of almotriptan tablets and 386 adult patients who received placebo. The most common adverse reactions during treatment with almotriptan tablets were nausea, somnolence, headache, paresthesia, and dry mouth. In long-term open-label studies where patients were allowed to treat multiple attacks for up to 1 year, 5% (63 out of 1347 patients) withdrew due to adverse experiences.

Adverse events were assessed in controlled clinical trials that included 362 adolescent patients who received almotriptan tablets and 172 adolescent patients who received placebo. The most common adverse reactions during treatment with almotriptan tablets were dizziness, somnolence, headache, paresthesia, nausea, and vomiting. In a long-term, open-label study where patients were allowed to treat multiple attacks for up to 1 year, 2% (10 out of 420 adolescent patients) withdrew due to adverse events.

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

6.1 Commonly-Observed Adverse Reactions in Double-Blind, Placebo-Controlled Almotriptan Tablet Clinical Trials

Adults

Table 1 lists the adverse events that occurred in at least 1% of the adult patients treated with almotriptan tablets, and at an incidence greater than in patients treated with placebo, regardless of drug relationship.

Table 1. Incidence of Adverse Events in Controlled Clinical Trials (Reported in at Least 1% of Adult Patients Treated with Almotriptan Tablets, and at an Incidence Greater than Placebo)

System/Organ Class Adverse Event	Almotriptan Tablets 6.25 mg (n = 527) %	Almotriptan Tablets 12.5 mg (n = 1313) %	Placebo (n = 386) %
Digestive Disorders			
Nausea	1	2	1

Dry Mouth	1	1	0.5
Nervous System Disorders			
Paresthesia	1	1	0.5

The incidence of adverse events in controlled clinical trials was not affected by gender, weight, age, presence of aura, or use of prophylactic medications or oral contraceptives. There were insufficient data to assess the effect of race on the incidence of adverse events.

Adolescents

Table 2 lists the adverse reactions reported by 1% or more of almotriptan tablet-treated adolescents age 12 to 17 years in one placebo-controlled, double-blind clinical trial.

Table 2. Adverse Reactions Reported by ≥ 1% of Adolescent Patients Treated with Almotriptan Tablets in One Placebo-Controlled, Double-Blind Clinical Trial

System/Organ Class Adverse Reaction	Almotriptan Tablets 6.25 mg (n = 180) %	Almotriptan Tablets 12.5 mg (n = 182) %	Placebo (n = 172) %
Nervous System Disorders			
Dizziness	4	3	2
Somnolence	< 1	5	2
Headache	1	2	1
Paresthesia	< 1	1	< 1
Gas trointes tinal Disorders			
Nausea	1	3	0
Vomiting	2	0	< 1

6.2 Other Adverse Reactions Observed in Almotriptan Tablet Clinical Trials

In the paragraphs that follow, the frequencies of less commonly reported adverse clinical reactions are presented. The reports include adverse reactions in five adult controlled studies and one adolescent controlled study. Variability associated with adverse reaction reporting, the terminology used to describe adverse reactions, etc., limit the value of the quantitative frequency estimates provided. Reaction frequencies are calculated as the number of patients who used almotriptan tablets and reported a reaction divided by the total number of patients exposed to almotriptan tablets (n = 3047, all doses). All reported reactions are included except those already listed in the previous table, those too general to be informative, and those not reasonably associated with the use of the drug. Reactions are further classified within system organ class and enumerated in order of decreasing frequency using the following definitions: frequent adverse reactions are those occurring in 1/100 or more patients, infrequent adverse reactions are those occurring in fewer than 1/100 patients, and rare adverse reactions are those occurring in fewer than 1/1000 patients.

Body: Frequent: Headache. Infrequent: Abdominal cramp or pain, Asthenia, Chills, Back pain, Chest pain, Neck pain, Fatigue, and Rigid neck. Rare: Fever and Photosensitivity reaction.

Cardiovascular: Infrequent: Vasodilation, Palpitations, and Tachycardia. *Rare:* Hypertension and Syncope.

Digestive: Infrequent: Diarrhea, Vomiting, Dyspepsia, Gastroenteritis, and Increased thirst. *Rare:* Colitis, Gastritis, Esophageal reflux, and Increased salivation.

Metabolic: Infrequent: Hyperglycemia and Increased serum creatine phosphokinase. *Rare:* Increased gamma glutamyl transpeptidase and Hypercholesteremia.

Musculoskeletal: Infrequent: Myalgia. *Rare:* Arthralgia, Arthritis, Myopathy, and Muscle weakness.

Nervous: Frequent: Dizziness and Somnolence. *Infrequent:* Tremor, Vertigo, Anxiety, Hypoesthesia, Restlessness, CNS stimulation, and Shakiness. *Rare:* Change in dreams, Impaired concentration, Abnormal coordination, Depressive symptoms, Euphoria, Hyperreflexia, Hypertonia, Nervousness, Neuropathy, Nightmares, Nystagmus, and Insomnia.

Respiratory: *Infrequent:* Pharyngitis, Rhinitis, Dyspnea, Laryngismus, Sinusitis, and Bronchitis. *Rare:* Hyperventilation, Laryngitis, Sneezing, and Epistaxis.

Skin: Infrequent: Diaphoresis, Pruritus, and Rash. *Rare:* Dermatitis and Erythema.

Special Senses: Infrequent: Ear pain and Tinnitus. *Rare:* Diplopia, Dry eyes, Eye pain, Otitis media, Parosmia, Scotoma, Conjunctivitis, Eye irritation, Hyperacusis, and Taste alteration.

Urogenital: Infrequent: Dysmenorrhea.

6.3 Postmarketing Experience

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

Immune System Disorders: Hypersensitivity reactions (including angioedema, anaphylactic reactions and anaphylactic shock)

Psychiatric Disorders: Confusional state, Restlessness

Nervous System Disorders: Hemiplegia, Hypoesthesia, Seizures

Eye Disorders: Blepharospasm, Visual impairment, Vision blurred

Ear and Labyrinth Disorders: Vertigo

Cardiac Disorders: Acute myocardial infarction, Coronary artery vasospasm, Angina pectoris,

Tachycardia

Gastrointestinal Disorders: Abdominal discomfort, Abdominal pain, Abdominal pain upper, Colitis,

Hypoesthesia oral, Swollen tongue

Skin and Subcutaneous Tissue Disorders: Cold sweat, Erythema, Hyperhidrosis

Musculoskeletal, Connective Tissue, and Bone Disorders: Arthralgia, Myalgia, Pain in extremity

Reproductive System and Breast Disorders: Breast pain

General Disorders: Malaise, Peripheral coldness.

7 DRUG INTERACTIONS

7.1 Ergot-Containing Drugs

These drugs have been reported to cause prolonged vasospastic reactions. Because, in theory, vasospastic effects may be additive, ergotamine-containing or ergot-type medications (like dihydroergotamine, ergotamine tartrate, or methysergide) and almotriptan tablets (almotriptan malate) should not be used within 24 hours of each other [see Contraindications (4.5)].

7.2 5-HT₁ Agonists (e.g., Triptans)

Concomitant use of other 5-HT₁ agonists (e.g., triptans) within 24 hours of treatment with almotriptan tablets is contraindicated [see Contraindications (4.6)].

7.3 Selective Serotonin Reuptake Inhibitors/Serotonin Norepinephrine Reuptake Inhibitors

Cases of life-threatening serotonin syndrome have been reported during combined use of triptans and selective serotonin reuptake inhibitors (SSRIs) or serotonin norepinephrine reuptake inhibitors (SNRIs) [see Warnings and Precautions (5.5), Clinical Pharmacology (12.3)].

7.4 Ketoconazole and Other Potent CYP3A4 Inhibitors

Co-administration of almotriptan and oral ketoconazole, a potent CYP3A4 inhibitor, resulted in an approximately 60% increase in exposure of almotriptan. Increased exposures to almotriptan may be expected when almotriptan is used concomitantly with other potent CYP3A4 inhibitors [see Clinical Pharmacology (12.3)].

In patients concomitantly using potent CYP3A4 inhibitors, the recommended starting dose of almotriptan tablets is 6.25 mg. The maximum daily dose should not exceed 12.5 mg within a 24-hour period. Concomitant use of almotriptan tablets and potent CYP3A4 inhibitors should be avoided in patients with renal or hepatic impairment [see Clinical Pharmacology (12.3)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category C

In animal studies, almotriptan produced developmental toxicity (increased embryolethality and fetal skeletal variations, and decreased offspring body weight) at doses greater than those used clinically. There are no adequate and well-controlled studies in pregnant women; therefore, almotriptan tablets (almotriptan malate) should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

When almotriptan (125 mg/kg/day, 250 mg/kg/day, 500 mg/kg/day, or 1000 mg/kg/day) was administered orally to pregnant rats throughout the period of organogenesis, increased incidences of fetal skeletal variations (decreased ossification) were noted at a dose of 250 mg/kg/day or greater and an increase in embryolethality was seen at the highest dose. The no-effect dose for embryo-fetal developmental toxicity in rats (125 mg/kg/day) is approximately 100 times the maximum recommended human dose (MRHD) of 25 mg/day on a body surface area (mg/m²) basis. Similar studies in pregnant rabbits conducted with almotriptan (oral doses of 5 mg/kg/day, 20 mg/kg/day, or 60 mg/kg/day) demonstrated increases in embryolethality at the highest dose. The no-effect dose for embryo-fetal developmental toxicity in rabbits (20 mg/kg/day) is approximately 15 times the MRHD on a mg/m² basis. When almotriptan (25 mg/kg/day, 100 mg/kg/day, or 400 mg/kg/day) was administered orally to rats throughout the periods of gestation and lactation, gestation length was increased and litter size and offspring body weight were decreased at the highest dose. The decrease in pup weight persisted throughout lactation. The no-effect dose in this study (100 mg/kg/day) is 40 times the MRHD on a mg/m² basis.

8.2 Labor and Delivery

The effect of almotriptan tablets on labor and delivery in humans is unknown.

8.3 Nursing Mothers

It is not known whether almotriptan is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when almotriptan tablets are administered to a nursing woman. Levels of almotriptan in rat milk were up to 7 times higher than in rat plasma.

8.4 Pediatric Use

Safety and efficacy of almotriptan tablets in pediatric patients under the age of 12 years have not been established. The pharmacokinetics, efficacy, and safety of almotriptan tablets have been evaluated in adolescent patients, age 12 to 17 years [see Clinical Pharmacology (12.3) and Clinical Studies (14.2)].

In a clinical study, almotriptan tablets 6.25 mg and 12.5 mg were found to be effective for the relief of migraine headache pain in adolescent patients age 12 to 17 years. Efficacy on migraine-associated symptoms (nausea, photophobia, and phonophobia) was not established. The most common adverse reactions (incidence of \geq 1%) associated with almotriptan tablet treatment were dizziness, somnolence, headache, paresthesia, nausea, and vomiting [see Adverse Reactions (6.1)]. The safety and tolerability profile of almotriptan tablet treatment in adolescents is similar to the profile observed in adults.

Postmarketing experience with other triptans include a limited number of reports that describe pediatric patients who have experienced clinically serious adverse events that are similar in nature to those reported rarely in adults.

8.5 Geriatric Use

Clinical studies of almotriptan tablets did not include sufficient numbers of subjects age 65 and over to determine whether they respond differently from younger subjects. Clearance of almotriptan was lower in elderly volunteers than in younger individuals, but there were no observed differences in the safety and tolerability between the two populations [see Clinical Pharmacology (12.3)]. In general, dose selection for an elderly patient should be cautious, usually starting at the low dose, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy. The recommended dose of almotriptan tablets for elderly patients with normal renal function for their age is the same as that recommended for younger adults.

8.6 Hepatic Impairment

The recommended starting dose of almotriptan tablets in patients with hepatic impairment is 6.25 mg. The maximum daily dose should not exceed 12.5 mg over a 24-hour period [see Dosage and Administration (2.2) and Clinical Pharmacology (12.3)].

8.7 Renal Impairment

The recommended starting dose of almotriptan tablets in patients with severe renal impairment is 6.25 mg. The maximum daily dose should not exceed 12.5 mg over a 24-hour period [see Dosage and Administration (2.3) and Clinical Pharmacology (12.3)].

10 OVERDOSAGE

10.1 Signs and Symptoms

Patients and volunteers receiving single oral doses of 100 mg to 150 mg of almotriptan did not experience significant adverse events. Six additional normal volunteers received single oral doses of 200 mg without serious adverse events. During clinical trials with almotriptan tablets (almotriptan malate), one patient ingested 62.5 mg in a 5-hour period and another patient ingested 100 mg in a 38-hour period. Neither patient experienced adverse reactions.

Based on the pharmacology of triptans, hypertension or other more serious cardiovascular symptoms could occur after overdosage.

10.2 Recommended Treatment

There is no specific antidote to almotriptan tablets. 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.

Clinical and electrocardiographic monitoring should be continued for at least 20 hours even if clinical symptoms are not observed.

It is unknown what effect hemodialysis or peritoneal dialysis has on plasma concentrations of almotriptan.

11 DESCRIPTION

Almotriptan tablets, USP contain almotriptan malate, a selective 5-hydroxytryptamine $_{1B/1D}$ (5-HT $_{1B/1D}$) receptor agonist. Almotriptan malate is chemically designated as 1-[[[3-[2-(Dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]pyrrolidine (\pm)-hydroxybutanedioate (1:1) and its structural formula is:

Its molecular formula is $C_{17}H_{25}N_3O_2S \cdot C_4H_6O_5$, representing a molecular weight of 469.56. Almotriptan malate, USP is a white to light yellow color crystalline powder that is soluble in water. Almotriptan tablets for oral administration contain 8.75 mg or 17.50 mg of almotriptan malate equivalent to 6.25 mg or 12.5 mg of almotriptan, respectively. Each compressed tablet contains the following inactive ingredients: hypromellose, mannitol, microcrystalline cellulose, polyethylene glycol, povidone, sodium starch glycolate (potato), sodium stearyl fumarate and titanium dioxide.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Almotriptan binds with high affinity to 5-HT_{1D}, 5-HT_{1B}, and 5-HT_{1F} receptors. Almotriptan has weak affinity for 5-HT_{1A} and 5-HT₇ receptors, but has no significant affinity or pharmacological activity at 5-HT₂, 5-HT₃, 5-HT₄, 5-HT₆; alpha or beta adrenergic; adenosine (A₁, A₂); angiotensin (AT₁, AT₂); dopamine (D₁, D₂); endothelin (ET_A, ET_B); or tachykinin (NK₁, NK₂, NK₃) binding sites.

12.2 Pharmacodynamics

Current theories on the etiology of migraine headache suggest that symptoms are due to local cranial vasodilatation and/or to the release of vasoactive and pro-inflammatory peptides from sensory nerve endings in an activated trigeminal system. The therapeutic activity of almotriptan in migraine can most likely be attributed to agonist effects at 5-HT $_{1B/1D}$ receptors on the extracerebral, intracranial blood vessels that become dilated during a migraine attack and on nerve terminals in the trigeminal system. Activation of these receptors results in cranial vessel constriction, inhibition of neuropeptide release, and reduced transmission in trigeminal pain pathways.

12.3 Pharmacokinetics

Absorption

The absolute bioavailability of almotriptan is about 70%, with peak plasma levels occurring 1 to 3 hours after administration; food does not affect pharmacokinetics.

Distribution

Almotriptan is minimally protein bound (approximately 35%) and the mean apparent volume of distribution is approximately 180 to 200 liters.

Metabolism

Almotriptan is metabolized by two major and one minor pathways. Monoamine oxidase (MAO)-mediated oxidative deamination (approximately 27% of the dose), and cytochrome P450-mediated oxidation (approximately 12% of the dose) are the major routes of metabolism, while flavin monooxygenase is the minor route. MAO-A is responsible for the formation of the indoleacetic acid metabolite, whereas cytochrome P450 (3A4 and 2D6) catalyzes the hydroxylation of the pyrrolidine ring to an intermediate that is further oxidized by aldehyde dehydrogenase to the gamma-aminobutyric acid derivative. Both metabolites are inactive.

Excretion

Almotriptan has a mean half-life of 3 to 4 hours. Almotriptan is eliminated primarily by renal excretion (about 75% of the oral dose), with approximately 40% of an administered dose excreted unchanged in urine. Renal clearance exceeds the glomerular filtration rate by approximately 3-fold, indicating an active mechanism. Approximately 13% of the administered dose is excreted via feces, both unchanged and metabolized.

Drug-Drug Interactions

All drug interaction studies were performed in healthy volunteers using a single 12.5 mg dose of almotriptan and multiple doses of the other drug.

Monoamine Oxidase Inhibitors

Co-administration of almotriptan and moclobemide (150 mg twice daily for 8 days) resulted in a 27% decrease in almotriptan clearance and an increase in C_{max} of approximately 6%. No dose adjustment is necessary.

Propranolol

Co-administration of almotriptan and propranolol (80 mg twice daily for 7 days) resulted in no significant changes in the pharmacokinetics of almotriptan.

Fluoxetine

Co-administration of almotriptan and fluoxetine (60 mg daily for 8 days), a potent inhibitor of CYP2D6, had no effect on almotriptan clearance, but maximal concentrations of almotriptan were increased 18%. This difference is not clinically significant.

Verapamil

Co-administration of almotriptan and verapamil (120 mg sustained-release tablets twice daily for 7 days), an inhibitor of CYP3A4, resulted in a 20% increase in the area under the plasma concentration-time curve, and in a 24% increase in maximal plasma concentrations of almotriptan. Neither of these changes is clinically significant. No dose adjustment is necessary.

Ketoconazole and Other Potent CYP3A4 Inhibitors

Co-administration of almotriptan and ketoconazole, a potent CYP3A4 inhibitor, resulted in an

approximately 60% increase in exposure of almotriptan. Increased exposures to almotriptan may be expected when almotriptan is used with other potent CYP3A4 inhibitors.

Special Populations

Geriatric

Renal and total clearance, and amount of drug excreted in the urine, were lower in elderly healthy volunteers (age 65 to 76 years) than in younger healthy volunteers (age 19 to 34 years), resulting in longer terminal half-life (3.7 hours vs. 3.2 hours) and a 25% higher area under the plasma concentration-time curve in the elderly subjects. The differences, however, do not appear to be clinically significant.

Pediatric

A pharmacokinetics study of almotriptan was conducted in adolescents (12 to 17 years) and adults (18 to 55 years) with or without a history of migraine. No differences were observed in the rate or extent of absorption of almotriptan in adolescents compared with adults.

Gender

No significant gender differences were observed in pharmacokinetic parameters.

Race

No significant differences were observed in pharmacokinetic parameters between Caucasian and African-American volunteers.

Hepatic Impairment

The pharmacokinetics of almotriptan have not been assessed in patients with hepatic impairment. Based on the known mechanisms of clearance of almotriptan, the maximum decrease expected in almotriptan clearance due to hepatic impairment would be 60% [see Dosage and Administration (2.2)].

Renal Impairment

The clearance of almotriptan was approximately 65% lower in patients with severe renal impairment (Cl/F = 19.8 L/hour; creatinine clearance between 10 and 30 mL/min) and approximately 40% lower in patients with moderate renal impairment (Cl/F = 34.2 L/hour; creatinine clearance between 31 and 71 mL/min) than in healthy volunteers (Cl/F = 57 L/hour). Maximal plasma concentrations of almotriptan increased by approximately 80% in these patients [see Dosage and Administration (2.3)].

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

Almotriptan was administered to mice and rats for up to 103 to 104 weeks at oral doses up to 250 mg/kg/day and 75 mg/kg/day, respectively. These doses were associated with plasma exposures (AUC) to parent drug that were approximately 40 and 80 times, in mice and rats respectively, the plasma AUC in humans at the maximum recommended human dose (MRHD) of 25 mg/day. Because of high mortality rates in both studies, which reached statistical significance in high-dose female mice, all female rats, all male mice, and high-dose female mice were terminated between weeks 96 and 98. There was no increase in tumors related to almotriptan administration.

Mutagenesis

Almotriptan was not mutagenic in two *in vitro* gene mutation assays, the Ames test, and the mouse

lymphoma tk assay. Almotriptan was not clastogenic in an *in vivo* mouse micronucleus assay.

Impairment of Fertility

When male and female rats received almotriptan (25 mg/kg/day, 100 mg/kg/day, or 400 mg/kg/day) orally prior to and during mating and gestation, prolongation of the estrous cycle was observed at the middose and greater, and fertility was impaired at the highest dose. Subsequent mating of treated with untreated animals indicated that the decrease in fertility was due to an effect on females. The no-effect dose for reproductive toxicity in rats (25 mg/kg/day) is approximately 10 times the MRHD on a mg/m² basis.

14 CLINICAL STUDIES

14.1 Adults

The efficacy of almotriptan tablets (almotriptan malate) was established in three multi-center, randomized, double-blind, placebo-controlled European trials. Patients enrolled in these studies were primarily female (86%) and Caucasian (more than 98%), with a mean age of 41 years (range of 18 to 72). Patients were instructed to treat a moderate to severe migraine headache. Two hours after taking one dose of study medication, patients evaluated their headache pain. If the pain had not decreased in severity to mild or no pain, the patient was allowed to take an escape medication. If the pain had decreased to mild or no pain at 2 hours but subsequently increased in severity between 2 and 24 hours, it was considered a relapse and the patient was instructed to take a second dose of study medication. Associated symptoms of nausea, vomiting, photophobia, and phonophobia were also evaluated.

In these studies, the percentage of patients achieving a response (mild or no pain) 2 hours after treatment was significantly greater in patients who received either almotriptan tablets 6.25 mg or 12.5 mg, compared with those who received placebo. A higher percentage of patients reported pain relief after treatment with the 12.5 mg dose than with the 6.25 mg dose. Doses greater than 12.5 mg did not lead to a significantly better response. These results are summarized in Table 3.

Table 3. Response	Rates 2 Hours	Following	Treatment of	Initial Headach	in Adults
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	Placebo	Almotriptan Tablets 6.25 mg	Almotriptan Tablets 12.5 mg
Study 1	33.8%	55.4%*	58.5% [†]
-	(n = 80)	(n = 166)	(n = 164)
Study 2	40.0%		57.1% [‡]
-	(n = 95)		(n = 175)
Study 3	33.0%	55.6% [†]	64.9% [†]
	(n = 176)	(n = 360)	(n = 370)

^{*} p value 0.002 in comparison with placebo

The estimated probability of achieving pain relief within 2 hours following initial treatment with almotriptan tablets in adults is shown in Figure 1.

[†] p value < 0.001 in comparison with placebo

[‡] p value 0.008 in comparison with placebo

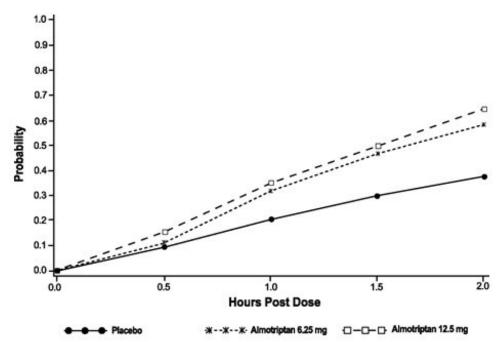


Figure 1. Estimated Probability of Achieving an Initial Headache Response (Mild or No Pain) in 2 Hours in Adults

This Kaplan-Meier plot is based on data obtained in the three placebo-controlled clinical trials that provided evidence of efficacy (Studies 1, 2, and 3). Patients not achieving pain relief by 2 hours were censored at 2 hours.

For patients with migraine-associated photophobia, phonophobia, nausea, and vomiting at baseline, there was a decreased incidence of these symptoms following administration of almotriptan tablets compared with placebo.

Two to 24 hours following the initial dose of study medication, patients were allowed to take an escape medication or a second dose of study medication for pain response. The estimated probability of patients taking escape medication or a second dose of study medication over the 24 hours following the initial dose of study medication is shown in Figure 2.

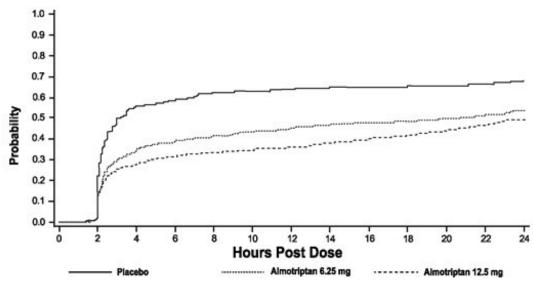


Figure 2. Estimated Probability of Adult Patients Taking Escape Medication or a Second Dose of Study Medication Over the 24 Hours Following the Initial Dose of Study Treatment

This Kaplan-Meier plot is based on data obtained in the three placebo-controlled trials that provided

evidence of efficacy (Studies 1, 2, and 3). Patients not using additional treatment were censored at 24 hours. Remedication was not allowed within 2 hours after the initial dose of almotriptan tablets.

The efficacy of almotriptan tablets was unaffected by the presence of aura; by gender, weight, or age of the patient; or by concomitant use of common migraine prophylactic drugs (e.g., beta-blockers, calcium channel blockers, and tricyclic antidepressants); or oral contraceptives. There were insufficient data to assess the effect of race on efficacy.

14.2 Adolescents Age 12 to 17 Years

The efficacy of almotriptan tablets in adolescent patients age 12 to 17 years was evaluated in a double-blind, randomized, placebo-controlled study. Patients enrolled in that study had at least a 1-year history of migraine attacks with or without aura usually lasting 4 hours or more (when untreated). Patients enrolled in the study were primarily females (60%) and Caucasian (75%), while 15% of patients were black, and 10% were of other races. Patients were instructed to treat a moderate to severe migraine headache. Two hours after taking one dose of study medication, patients evaluated their headache pain. Associated symptoms of nausea, photophobia, and phonophobia were also evaluated.

In this study, the percentage of patients achieving a pain relief response (mild or no pain) 2 hours after treatment was statistically significantly greater in patients who received almotriptan tablets 6.25 mg or 12.5 mg compared with those who received placebo. There was no additional benefit on pain relief provided by the 12.5 mg dose. The 2-hour pain relief results are summarized in Table 4.

Table 4. Response Rates 2 Hours Following Treatment of Initial Headache in Adolescents Age 12 to 17 Years

	Placebo	Almotriptan Tablets 6.25 mg	Almotriptan Tablets 12.5 mg
Study 1	55.3%	71.8%*	72.9% [†]
	(n/N = 94/170)	(n/N = 127/177)	(n/N = 132/181)

^{*} p value 0.001 in comparison with placebo

The estimated probability of achieving pain relief within 2 hours following initial treatment with almotriptan tablets in adolescents age 12 to 17 years is shown in Figure 3.

[†] p value < 0.001 in comparison with placebo

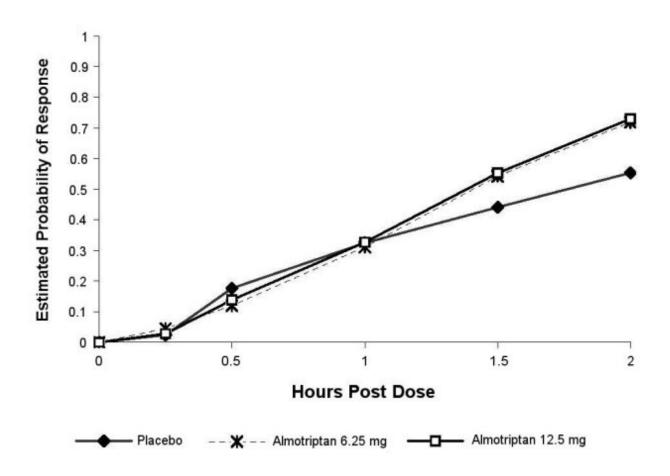


Figure 3. Estimated Probability of Achieving an Initial Headache Response (Mild or No Pain) in 2 Hours in the Adolescent Study

The prevalence of the migraine-associated symptoms (nausea, photophobia, and phonophobia) at 2 hours after taking the dose was not significantly different between patients who received almotriptan tablets 6.25 mg or 12.5 mg and those who received placebo.

16 HOW SUPPLIED/STORAGE AND HANDLING

Almotriptan Tablets, USP are available containing 8.75 mg or 17.50 mg of almotriptan malate, USP equivalent to 6.25 mg or 12.5 mg of almotriptan, respectively.

The 6.25 mg tablets are white to off-white, film-coated, round, unscored tablets debossed with **M** on one side of the tablet and **AL1** on the other side. They are available as follows:

NDC 0378-5245-85

carton of 6 unit-dose tablets (1 x 6)

The 12.5 mg tablets are white to off-white, film-coated, round, unscored tablets debossed with **M** on one side of the tablet and **AL2** on the other side. They are available as follows:

NDC 0378-5246-85

carton of 12 unit-dose tablets (2 x 6)

Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature.]

Dispense in a tight, light-resistant container as defined in the USP using a child-resistant closure.

17 PATIENT COUNSELING INFORMATION

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

Drug Interactions: Advise patients to talk with their physician or pharmacist before taking any new medicines, including prescription and non-prescription drugs and supplements [see Contraindications (4.5) and (4.6) and Drug Interactions (7)].

Hypers ensitivity: Inform patients to tell their physician if they develop a rash, itching, or breathing difficulties after taking almotriptan tablets [see Warnings and Precautions (5.8)].

Risk of Myocardial Ischemia and/or Infarction, Other Adverse Cardiac Events, Other Vasos pasm-Related Events, and Cerebrovas cular Events: Inform patients that almotriptan tablets may cause serious cardiovascular side effects such as myocardial infarction or stroke, which may result in hospitalization and even death. Although serious cardiovascular events can occur without warning symptoms, patients should be alert for the signs and symptoms of chest pain, shortness of breath, weakness, or slurring of speech, and should ask for medical advice when observing any indicative signs or symptoms. Apprise the patient of the importance of this follow-up [see Warnings and Precautions (5.1), (5.2), (5.3), and (5.4)].

Serotonin Syndrome: Caution patients about the risk of serotonin syndrome with the use of almotriptan tablets or other triptans, particularly during combined use with selective serotonin reuptake inhibitors (SSRIs) or serotonin norepinephrine reuptake inhibitors (SNRIs) [see Warnings and Precautions (5.5)].

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

Pregnancy: Advise patients to notify their physician if they become pregnant during treatment or intend to become pregnant [see *Use in Specific Populations (8.1)*].

Nursing Mothers: Advise patients to notify their physician if they are breastfeeding or plan to breastfeed [see Use in Specific Populations (8.3)].

Ability to Operate Machinery or Vehicles: Counsel patients that almotriptan tablets may cause dizziness, somnolence, visual disturbances, and other CNS symptoms that can interfere with driving or operating machinery. Accordingly, advise the patient not to drive, operate complex machinery, or engage in other hazardous activities until they have gained sufficient experience with almotriptan tablets to gauge whether they affect their mental or visual performance adversely.

Patient Information

Almotriptan Tablets, USP (al" moe trip' tan)

What is the most important information I should know about almotriptan tablets?

Almotriptan tablets can cause serious side effects, including:

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

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

- discomfort in the center of your chest that lasts for more than a few minutes, or that goes away and comes back
- severe tightness, pain, pressure, or heaviness in your chest, throat, neck, or jaw
- pain or discomfort in your arms, back, neck, jaw, or stomach

- shortness of breath with or without chest discomfort
- breaking out in a cold sweat
- nausea or vomiting
- feeling lightheaded

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

- have high blood pressure
- have high cholesterol levels
- smoke
- are overweight
- have diabetes
- have a family history of heart disease
- are past menopause
- are a man over 40 years old

What are almotriptan tablets?

- Almotriptan tablets are a prescription medicine that belong to a class of medicines called Triptans. Almotriptan tablets are used:
 - o to treat acute migraine attacks in adults with a history of migraine with or without aura.
 - to treat acute migraine headache pain in children 12 to 17 years of age with a history of migraine with or without aura, and who have migraine attacks that last 4 hours or more when not treated.
- It is not known if almotriptan tablets are safe and effective in children 12 to 17 years of age with migraine related symptoms (nausea; light sensitivity; sound sensitivity).
- Almotriptan tablets are not to be used to prevent migraine attacks.
- Almotriptan tablets are not for the treatment of hemiplegic (that make you unable to move on one side of your body) or basilar (rare form of migraine with aura) migraines.
- It is not known if almotriptan tablets are safe and effective for the treatment of cluster headaches.
- It is not known if almotriptan tablets are safe and effective in children under 12 years of age.

Do not take almotriptan tablets if you:

- have or have had heart problems
- have or have had a stroke or transient ischemic attack (TIA)
- have or have had blood vessel problems including ischemic bowel disease
- have uncontrolled high blood pressure
- have hemiplegic or basilar migraine. If you are not sure if you have these types of migraines, ask your health care provider.
- have taken any of the following medicines in the last 24 hours:
 - o ergotamines
 - ^o dihydroergotamines
 - o methysergide

- o sumatriptan
- o eletriptan
- o frovatriptan
- o naratriptan
- o rizatriptan
- o sumatriptan and naproxen
- ⁰ zolmitriptan
- are allergic to almotriptan malate or any of the ingredients in almotriptan tablets. See the end of this leaflet for a complete list of ingredients in almotriptan tablets.

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

Before you take almotriptan tablets, tell your doctor about all of your medical conditions, including if you:

- have high blood pressure
- have high cholesterol
- have diabetes
- smoke
- are overweight
- have heart problems or family history of heart problems or stroke
- have kidney problems
- have liver problems
- are past menopause
- are a man over 40 years old
- are allergic to sulfa (sulfonamide)
- are pregnant or plan to become pregnant. It is not known if almotriptan will harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if almotriptan passes into your breast milk. Talk to your doctor about the best way to feed your baby if you take almotriptan tablets.

Tell your doctor about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Especially tell your doctor if you take medicines called:

- selective serotonin reuptake inhibitors (SSRIs)
- serotonin norepinephrine reuptake inhibitors (SNRIs)

Also tell your doctor if you take certain other types of medicines used to treat fungal infection (such as ketoconazole or itraconazole) or to treat HIV/AIDS (such as ritonavir).

Ask your doctor or pharmacist for a list of these medicines if you are not sure. Know the medicines you take. Keep a list of them to show your doctor or pharmacist when you get a new medicine.

How should I take almotriptan tablets?

- Take almotriptan tablets exactly as your doctor tells you to take them.
- If your headache comes back after your first dose, you may take a second dose 2 hours or more after the first dose. If your pain continues after the first dose, do not take a second dose without

- first checking with your doctor.
- Do not take more than 2 almotriptan tablets in a 24-hour period.
- If you take too many almotriptan tablets, call your doctor or go to the nearest hospital emergency room right away.

What should I avoid while taking almotriptan tablets?

Almotriptan tablets may cause dizziness, sleepiness, and problems seeing. Do not drive, operate machinery, or do other dangerous activities until you know how almotriptan tablets affect you.

What are the possible side effects of almotriptan tablets? Almotriptan tablets may cause serious side effects, including:

- See "What is the most important information I should know about almotriptan tablets?"
- changes in color or sensation in your fingers and toes (Raynaud's syndrome)
- **stomach and intestinal problems** (gastrointestinal and colonic ischemic events). Symptoms of gastrointestinal and colonic ischemic events include:
 - o sudden or severe stomach pain
 - o stomach pain after meals
 - o weight loss
 - o nausea or vomiting
 - o constipation or diarrhea
 - O bloody diarrhea
 - o fever
- problems with blood circulation to your legs and feet (peripheral vascular ischemia). Symptoms of peripheral vascular ischemia include:
 - o cramping and pain in your legs or hips
 - o feeling of heaviness or tightness in your leg muscles
 - o burning or aching pain in your feet or toes while resting
 - o numbness, tingling, or weakness in your legs
- **serotonin syndrome.** Serotonin syndrome is a rare but serious problem that can happen in people using almotriptan tablets, especially if almotriptan tablets are used with antidepressant medicines called SSRIs or SNRIs. Call your doctor if you have any of the following symptoms of serotonin syndrome:
 - mental changes such as seeing things that are not there (hallucinations), agitation, or coma
 - o fast heartbeat
 - o changes in blood pressure
 - o high body temperature
 - o tight muscles
 - o trouble walking
 - o nausea, vomiting or diarrhea
- medication overuse headaches. Some people who use too many almotriptan tablets, for 10 or more days every month, may have worse headaches (medication overuse headache). If your headaches get worse, your doctor may decide to stop your treatment with almotriptan tablets. Keep a headache diary by writing down how often you have a headache and when you take your

medicine.

- allergic reactions. Some people who are allergic to sulfa medicines may be allergic to almotriptan tablets. Stop taking almotriptan tablets and call your doctor or get emergency help right away if you get any of these symptoms of an allergic reaction:
 - o a swollen face, lips, mouth, tongue or throat
 - O difficulty swallowing or breathing
 - o an itchy rash (hives)

The most common side effects of almotriptan tablets in adults are:

- nausea
- dry mouth
- tingling or burning feeling (paresthesia)

The most common side effects of almotriptan tablets in adolescents are:

- dizziness
- sleepiness
- headache
- tingling or burning feeling (paresthesia)
- nausea
- vomiting

These are not all the possible side effects of almotriptan tablets. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store almotriptan tablets?

- Store almotriptan tablets at room temperature between 20°C to 25°C (68°F to 77°F).
- Safely throw away medicine that is out of date or no longer needed.

Keep almotriptan tablets and all medicines out of the reach of children.

General information about the safe and effective use of almotriptan tablets.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use almotriptan tablets for a condition for which they were not prescribed. Do not give almotriptan tablets to other people, even if they have the same symptoms you have. They may harm them. You can ask your pharmacist or healthcare provider for information about almotriptan tablets that is written for health professionals.

What are the ingredients in almotriptan tablets?

Active ingredient: almotriptan malate

Inactive ingredients: hypromellose, mannitol, microcrystalline cellulose, polyethylene glycol, povidone, sodium starch glycolate (potato), sodium stearyl fumarate and titanium dioxide.

Manufactured for: Mylan Pharmaceuticals Inc. Morgantown, WV 26505 U.S.A. **Manufactured by:** Mylan Laboratories Limited Hyderabad – 500 096, India

For more information, call Mylan Pharmaceuticals Inc. at 1-877-446-3679 (1-877-4-INFO-RX).

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

Manufactured for:

Mylan Pharmaceuticals Inc.

Morgantown, WV 26505 U.S.A.

Manufactured by:

Mylan Laboratories Limited

Hyderabad — 500 096, India

Code No.: MH/DRUGS/25/NKD/89

75061692

Revised: 5/2017 MX:ALMT:R3U

PRINCIPAL DISPLAY PANEL - 6.25 mg

NDC 0378-5245-85

Almotriptan Tablets, USP

6.25 mg*

Rx only 6 Unit-dose Tablets (1 Card x 6 Tablets)

*Each film-coated tablet contains 8.75 mg of almotriptan malate, USP equivalent to 6.25 mg of almotriptan.

Usual Dosage: See accompanying prescribing information.

Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature.]

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

Manufactured for:

Mylan Pharmaceuticals Inc.

Morgantown, WV 26505 U.S.A.

Made in India

Code No.: MH/DRUGS/25/NKD/89

Mylan.com

MX:5245:6C:R3



PRINCIPAL DISPLAY PANEL - 12.5 mg

NDC 0378-5246-85

Almotriptan Tablets, USP

12.5 mg*

Rx only 12 Unit-dose Tablets (2 Cards x 6 Tablets)

*Each film-coated tablet contains 17.50 mg of almotriptan malate, USP equivalent to 12.5 mg of almotriptan.

Usual Dosage: See accompanying

prescribing information.

Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature.]

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

Manufactured for:

Mylan Pharmaceuticals Inc. Morgantown, WV 26505 U.S.A.

Made in India

Code No.: MH/DRUGS/25/NKD/89

Mylan.com

MX:5246:12C:R3



ALMOTRIPTAN MALATE

almotriptan tablet, film coated

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Product TypeHUMAN PRESCRIPTION DRUGItem Code (Source)NDC:0378-5245

Route of Administration ORAL

Active Ingredient/Active Moiety

8		
Ingredient Name	Basis of Strength	Strength
ALMOTRIPTAN MALATE (UNII: PJP312605E) (ALMOTRIPTAN - UNII:104XL5SN61)	ALMOTRIPTAN	6.25 mg

Inactive Ingredients					
Ingredient Name	Strength				
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)					
MANNITOL (UNII: 3OWL53L36A)					
MICRO CRYSTALLINE CELLULO SE (UNII: OP1R32D61U)					
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)					
PO VIDO NE, UNSPECIFIED (UNII: FZ989GH94E)					
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)					
SODIUM STEARYL FUMARATE (UNII: 7CV7WJK4UI)					
TITANIUM DIO XIDE (UNII: 15FIX9 V2JP)					

Product Characteristics					
Color	WHITE (white to off-white)	Score	no score		
Shape	ROUND	Size	6 mm		
Flavor		Imprint Code	M;AL1		
Contains					

Ш	Packaging						
	# Item Code	Package Description	Marketing Start Date	Marketing End Date			
	1 NDC:0378-5245-85	1 in 1 CARTON	11/10/2015				
	1 NDC:0378-5245-32	6 in 1 BLISTER PACK; Type 0 : Not a Combination Product					

Marketing Information						
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date			
ANDA	ANDA205171	11/10/2015				

ALMOTRIPTAN MALATE

almotriptan tablet, film coated

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0378-5246
Route of Administration	ORAL		

Active Ingredient/Active Moiety			
Ingredient Name	Basis of Strength	Strength	
ALMOTRIPTAN MALATE (UNII: PJP312605E) (ALMOTRIPTAN - UNII:104XL5SN61)	ALMOTRIPTAN	12.5 mg	

Inactive	Ingredients		

Ingredient Name	Strength
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
MANNITOL (UNII: 3OWL53L36A)	
MICRO CRYSTALLINE CELLULO SE (UNII: OP1R32D61U)	
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)	
PO VIDO NE, UNSPECIFIED (UNII: FZ989GH94E)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
SODIUM STEARYL FUMARATE (UNII: 7CV7WJK4UI)	
TITANIUM DIO XIDE (UNII: 15FIX9 V2JP)	

Product Characteristics			
Color	WHITE (white to off-white)	Score	no score
Shape	ROUND	Size	7mm
Flavor		Imprint Code	M;AL2
Contains			

Packaging			
# Item Code	Package Description	Marketing Start Date	Marketing End Date
1 NDC:0378-5246-85	2 in 1 CARTON	11/10/2015	
1 NDC:0378-5246-32	6 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA205171	11/10/2015	

Labeler - Mylan Pharmaceuticals Inc. (059295980)

Revised: 5/2017 Mylan Pharmaceuticals Inc.