AXERT® (almotriptan malate) tablets
Initial U.S. Approval: 2001

RECENT MAJOR CHANGES
Indications and Usage, Adolescents (1) 05/2009
Dosage and Administration, Adolescents (2.1) 05/2009
Warnings and Precautions, Hypersensitivity (5.7) 05/2009

INDICATIONS AND USAGE
AXERT is a 5HT1B/1D receptor agonist (triptan) indicated for:
Acute treatment of migraine attacks in adults with a history of migraine
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)
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
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)

DOSE FORMS AND STRENGTHS
Tablets: 6.25 mg and 12.5 mg (3)

CONTRAINDICATIONS
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 AXERT 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 AXERT (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 AXERT 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 AXERT use in the absence of known cardiovascular disease. If AXERT is considered, patients should first have

ADVERSE REACTIONS
The most common adverse reactions (2% and >placebo) are:
in adults: nausea, dry mouth and paresthesia (6.1)
in adolescents: dizziness, somnolence, headache, paresthesia, nausea and vomiting (6.2)

DRUG INTERACTIONS
Do not use AXERT and ergotamine-containing or ergot-type medications within 24 hours of each other (4.5, 7.1)
Do not use AXERT 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 AXERT 6.25mg; maximum AXERT daily dose 12.5mg (7.4)

USE IN SPECIFIC POPULATIONS
Pregnancy: based on animal data, may cause fetal harm (8.1)
Nursing Mothers: use AXERT with caution (8.3)
Pediatric use: AXERT has 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: 04/2009
1 INDICATIONS AND USAGE

1.1 Acute Treatment of Migraine Attacks

Adults: AXERT (almotriptan malate) is 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: AXERT is 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

AXERT 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 AXERT, the diagnosis of migraine should be reconsidered before AXERT is administered to treat any subsequent attacks.

In adolescents age 12-17 years, efficacy of AXERT on migraine associated symptoms (nausea, photophobia and phonophobia) was not established. AXERT is 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 AXERT 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 AXERT 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 AXERT, the choice of dose should be made on an individual basis.

If the headache is relieved after the initial AXERT 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 AXERT 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 (5.8) and Clinical Pharmacology (12.3)].

2.3 Renal Impairment
The recommended starting dose of AXERT 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 (5.8) and Clinical Pharmacology (12.3)].

3 DOSAGE FORMS AND STRENGTHS
AXERT (almotriptan malate) Tablets are available as white, coated, circular, biconvex tablets in the following dosage strengths:

- 6.25 mg tablet with red code imprint “2080”
- 12.5 mg tablet with blue stylized imprint “A.”

4 CONTRAINDICATIONS
4.1 Ischemic or Vasospastic Coronary Artery Disease or other Significant Underlying Cardiovascular Disease
Do not use AXERT 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 Cerebrovascular Syndromes
Do not use AXERT 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 AXERT 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 AXERT may increase blood pressure, do not use AXERT in patients with uncontrolled hypertension [see Warnings and Precautions (5.6)].
4.5 Ergotamine-Containing and Ergot-Type Medications
Do not use AXERT 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)
AXERT 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 AXERT in patients with hemiplegic or basilar migraine.

4.8 Hypersensitivity
AXERT is contraindicated in patients with known hypersensitivity to almotriptan or any of its 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 AXERT. 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.

AXERT 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 AXERT, a causal relationship cannot be excluded. Patients who experience signs or symptoms suggestive of angina following dosing should be evaluated for the presence of CAD or a predisposition to Prinzmetal’s variant angina before receiving additional doses of medication, and should be monitored electrocardiographically if dosing is resumed and similar symptoms recur.

Premarketing Experience With AXERT in Adults
Among the 3865 subjects/patients who received AXERT in premarketing clinical trials, one patient was hospitalized for observation after a scheduled 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 3 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 it was also found 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 AXERT in Adults
Serious cardiovascular events have been reported in association with the use of AXERT. 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-HT1 agonists) to cause coronary vasospasm, AXERT 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 AXERT not be given to patients in whom unrecognized coronary artery disease (CAD) is predicted by the presence of risk factors (eg, hypertension, hypercholesterolemia, smoker, obesity, diabetes, strong family history of CAD, female with surgical or physiological menopause, or male over 40 years of age) unless a cardiovascular evaluation provides satisfactory clinical evidence that the patient is reasonably free of coronary artery and ischemic myocardial disease or other significant underlying cardiovascular disease. The sensitivity of cardiac diagnostic procedures to detect cardiovascular disease or predisposition to coronary artery vasospasm is modest, at best. If, during the cardiovascular evaluation, the patient’s medical history, electrocardiographic or other investigations reveal findings indicative of, or consistent with, coronary artery vasospasm or myocardial ischemia, AXERT 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 AXERT take place in the setting of a physician’s office or similar medically staffed and equipped facility unless the patient has previously received AXERT. Because cardiac ischemia can occur in the absence of clinical symptoms, consideration should be given to obtaining on the first occasion of use an electrocardiogram (ECG) during the interval immediately following AXERT, in these patients with risk factors. It is recommended that
patients who are intermittent long-term users of AXERT and who have or acquire risk factors predictive of CAD, as described above, undergo periodic interval cardiovascular evaluation as they continue to use AXERT.

The systematic approach described above is intended to reduce the likelihood that patients with unrecognized cardiovascular disease will be inadvertently exposed to AXERT. 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-HT1 agonists, sensations of tightness, pain, pressure, and heaviness in the precordium, throat, neck, and jaw have been reported after treatment with AXERT. Because 5-HT1 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-HT1 agonists [see Contraindications (4.1) and Warnings and Precautions (5.1)].

5.3 Cerebrovascular 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, transient ischemic attack) [see Contraindications (4.2)].

5.4 Other Vasospasm Related Events including Peripheral Vascular Ischemia and Colonic Ischemia
Triptans, including AXERT, 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 AXERT, particularly during combined use with selective serotonin reuptake inhibitors (SSRIs) or serotonin norepinephrine reuptake inhibitors (SNRIs). If concomitant treatment with AXERT 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 (7.3)].

5.6 Increases in Blood Pressure
As with other triptans, significant elevations in systemic blood pressure have been reported on rare occasions with AXERT use, in patients with and without a history of hypertension; very rarely these increases in blood pressure have been associated with significant clinical events. AXERT is 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.

5.7 Hypersensitivity to sulfonamides
Caution should be exercised when prescribing AXERT 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.
5.8 Impaired Hepatic or Renal Function
AXERT 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 Clinical Pharmacology (12.3)].

5.9 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.

5.10 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, but not after 25 weeks of treatment. The doses at which this occurred were 2, 5, 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 AXERT 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:

Cardiac Events and Fatalities [see Warnings and Precautions (5.1)]
Sensations of Chest Pain and Tightness [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)]

Increases in Blood Pressure [see Warnings and Precautions (5.5)]

Serotonin Syndrome [see Warnings and Precautions (5.6)]

Adverse events were assessed in controlled clinical trials that included 1840 adult patients who received one or two doses of AXERT and 386 adult patients who received placebo. The most common adverse events during treatment with AXERT 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 one 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 AXERT and 172 adolescent patients who received placebo. The most common adverse events during treatment with AXERT 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 one 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 AXERT Clinical Trials

Adults

Table 1 lists the adverse events that occurred in at least 1% of the adult patients treated with AXERT, 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 AXERT, and at an Incidence Greater than Placebo)

<table>
<thead>
<tr>
<th>Adverse Event</th>
<th>AXERT® 6.25 mg (n=527) %</th>
<th>AXERT® 12.5 mg (n=1313) %</th>
<th>Placebo (n=386) %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digestive</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nausea</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Dry Mouth</td>
<td>1</td>
<td>1</td>
<td>0.5</td>
</tr>
<tr>
<td>Nervous</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paresthesia</td>
<td>1</td>
<td>1</td>
<td>0.5</td>
</tr>
</tbody>
</table>

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 AXERT-treated adolescents aged 12 to 17 years in 1 placebo-controlled, double-blind clinical trial.

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

<table>
<thead>
<tr>
<th>System/Organ Class</th>
<th>AXERT 6.25 mg (n=180) %</th>
<th>AXERT® 12.5 mg (n=182) %</th>
<th>Placebo (n=172) %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nervous system disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dizziness</td>
<td>4</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Somnolence</td>
<td>&lt;1</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>Headache</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Paresthesia</td>
<td>&lt;1</td>
<td>1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nausea</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Vomiting</td>
<td>2</td>
<td>0</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

6.2 Other Adverse Reactions Observed in AXERT Clinical Trials

In the paragraphs that follow, the frequencies of less commonly reported adverse clinical reactions are presented. The reports include adverse reactions in 5 adult controlled studies and 1 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 AXERT and reported a reaction divided by the total number of patients exposed to AXERT (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 patients or more patients, infrequent adverse reactions are those occurring in fewer than 1/100 to 1/1,000 patients and rare adverse reactions are those occurring in fewer than 1/1,000 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.

Musculo-Skeletal: Infrequent: myalgia. Rare: arthralgia, arthritis, myopathy and muscle weakness.

Nervous: Frequent: dizziness and somnolence. Infrequent: tremor, vertigo, anxiety, hypesthesis, 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 Post-Marketing Experience
The following adverse reactions have been identified during postapproval use of AXERT. 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: Anaphylactic shock
Psychiatric disorders: Confusional state, restlessness

Nervous system disorders: Hemiplegia, hypoesthesia, seizures

Eye disorders: Blepharospasm

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: Angioedema, 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

For additional detailed information on drug interactions see Clinical Pharmacology, Pharmacokinetics (12.3).

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 AXERT 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 AXERT 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)].
7.4 Ketoconazole and Other Potent CYP3A4 Inhibitors
Coadministration 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.

In patients concomitantly using potent CYP3A4 inhibitors, the recommended starting dose of AXERT is 6.25 mg. The maximum daily dose should not exceed 12.5 mg within a 24-hour period. Concomitant use of AXERT and potent CYP3A4 inhibitors should be avoided in patients with renal or hepatic impairment.

8 USE IN SPECIFIC POPULATIONS

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

When almotriptan (125, 250, 500, 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/mg/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, 20, 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, 100, 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 AXERT 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 AXERT is 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 AXERT in pediatric patients under the age of 12 years have not been established. The pharmacokinetics, efficacy and safety of AXERT have been evaluated in adolescent patients, aged 12-17 years [see Clinical Pharmacology (12.3) and Clinical Studies (14.2)].

In a clinical study, AXERT 6.25 mg and 12.5 mg were found to be effective for the relief of migraine headache pain in adolescent patients age 12-17 years. Efficacy on migraine-associated symptoms (nausea, photophobia and phonophobia) was not established. 1 The most common adverse reactions (incidence of ≥1%) associated with AXERT treatment were dizziness, somnolence, headache, paresthesia, nausea and vomiting [see Adverse Reactions (6.2). The safety and tolerability profile of AXERT 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 AXERT did not include sufficient numbers of subjects aged 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 AXERT 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 AXERT 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 AXERT 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 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 AXERT, 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
Gastrointestinal decontamination (i.e., gastric lavage followed by activated charcoal) should be considered in patients suspected of an overdose with AXERT. 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
AXERT (almotriptan malate) Tablets contain almotriptan malate, a selective 5-hydroxytryptamine1B/1D (5-HT1B/1D) receptor agonist. Almotriptan malate is chemically designated as 1-[[3-[2-(Dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]pyrrolidine (±)-hydroxybutanedioate (1:1), and its structural formula is:

```
N-SO2-CH2
\CH2CH2-N-C\3
\CH3

• HOOC--COOH
\OH
```
Its empirical formula is C$_{17}$H$_{25}$N$_{3}$O$_{2}$S-C$_{4}$H$_{6}$O$_{5}$, representing a molecular weight of 469.56. Almotriptan is a white to slightly yellow crystalline powder that is soluble in water. AXERT for oral administration contains almotriptan malate equivalent to 6.25 or 12.5 mg of almotriptan. Each compressed tablet contains the following inactive ingredients: mannitol, cellulose, povidone, sodium starch glycolate, sodium stearyl fumarate, titanium dioxide, hypromellose, polyethylene glycol, propylene glycol, iron oxide (6.25 mg only), FD&C Blue No. 2 (12.5 mg only), and carnauba wax.

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-HT$_{7}$ receptors, but has no significant affinity or pharmacological activity at 5-HT$_{2}$, 5-HT$_{3}$, 5-HT$_{4}$, 5-HT$_{6}$; alpha or beta adrenergic; adenosine (A$_{1}$, A$_{2}$); angiotensin (AT$_{1}$, AT$_{2}$); dopamine (D$_{1}$, D$_{2}$); endothelin (ET$_{A}$, ET$_{B}$); or tachykinin (NK$_{1}$, NK$_{2}$, NK$_{3}$) 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: coadministration of almotriptan and moclobemide (150 mg twice daily for 8 days) resulted in a 27% decrease in almotriptan clearance and an increase in Cmax of approximately 6%. No dose adjustment is necessary.

Propranolol: Coadministration of almotriptan and propranolol (80 mg twice daily for 7 days) resulted in no significant changes in the pharmacokinetics of almotriptan.

Fluoxetine: Coadministration of almotriptan and fluoxetine (60 mg daily for 8 days), a potent inhibitor almotriptan were increased 18%. This difference is not clinically significant.

Verapamil: Coadministration 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: Coadministration 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 h vs. 3.2 h) 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 have been observed in pharmacokinetic parameters.

Race
No significant differences have been 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/h; creatinine clearance between 10 and 30 mL/min) and approximately 40% lower in patients with moderate renal impairment (Cl/F=34.2 L/h; creatinine clearance between 31 and 71 mL/min) than in healthy volunteers (Cl/F= 57 L/h). 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 103-104 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, 100, or 400 mg/kg/day) orally prior to and during mating and gestation, prolongation of the estrous cycle was observed at the mid dose 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 AXERT was established in 3 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 to no pain, the patient was allowed to take an escape medication. If the pain had decreased to mild or to 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 AXERT 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 significantly better response. These results are summarized in Table 3.
Table 3. Response Rates 2 Hours Following Treatment of Initial Headache

<table>
<thead>
<tr>
<th></th>
<th>Placebo</th>
<th>AXERT 6.25 mg</th>
<th>AXERT 12.5 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study 1</td>
<td>33.8% (n = 80)</td>
<td>55.4% (n = 166)</td>
<td>58.5% (n = 164)</td>
</tr>
<tr>
<td>Study 2</td>
<td>40.0% (n = 95)</td>
<td>--- (n = 175)</td>
<td>57.1% (n = 175)</td>
</tr>
<tr>
<td>Study 3</td>
<td>33.0% (n = 176)</td>
<td>55.6% (n = 360)</td>
<td>64.9% (n = 370)</td>
</tr>
</tbody>
</table>

* p value 0.002 in comparison with placebo
† p value <0.001 in comparison with placebo
‡ p value 0.008 in comparison with placebo

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

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 AXERT 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 AXERT.

The efficacy of AXERT 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, tricyclic antidepressants), or oral contraceptives. There were insufficient data to assess the effect of race on efficacy.

**14.2 Adolescents age 12-17 years**

The efficacy of AXERT in adolescent patients age 12-17 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 AXERT.
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 12-17 years

<table>
<thead>
<tr>
<th></th>
<th>Placebo</th>
<th>AXERT 6.25 mg</th>
<th>AXERT 12.5 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study 1</td>
<td>55.3%</td>
<td>71.8%*</td>
<td>72.9%†</td>
</tr>
<tr>
<td></td>
<td>(n/N = 94/170)</td>
<td>(n/N = 127/177)</td>
<td>(n/N = 132/181)</td>
</tr>
</tbody>
</table>

* p value 0.001 in comparison with placebo
† p value <0.001 in comparison with placebo

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

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 AXERT 6.25 mg or 12.5mg and those who received placebo.
16 HOW SUPPLIED/STORAGE AND HANDLING
AXERT® (almotriptan malate) Tablets are available as follows:

6.25 mg: White, coated, circular, biconvex tablets with red code imprint “2080.”

Unit Dose (aluminum blister pack)
6 tablets NDC 0062-2080-06

12.5 mg: White, coated, circular, biconvex tablets with blue stylized imprint “A.”

Unit Dose (aluminum blister pack)
12 tablets NDC 0062-2085-12

Store at 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F) [see USP Controlled room temperature].

17 PATIENT COUNSELING INFORMATION
See FDA-Approved Patient Labeling (17.9)

17.1 Patient Information Leaflet
Inform patients that Patient Information labeling is available as a separate leaflet. Advise the patient to read this information and assist them in understanding its contents. Provide the patient the opportunity to discuss the contents of the Patient Information and answer any questions they may have. The complete text of the Patient Information is attached to the package insert.

17.2 Risk of Myocardial Ischemia and/or Infarction, Other Adverse Cardiac Events, Other Vasospasm-related Event, and Cerebrovascular Events
Inform patients that AXERT 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, slurring of speech, and should ask for medical advice when observing any indicative sign or symptoms. Apprise the patient of the importance of this follow-up [see Warnings and Precautions (5.1, 5.2, 5.3, 5.4)].

17.3 Serotonin Syndrome
Caution patients about the risk of serotonin syndrome with the use of AXERT 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)].

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

17.5 Nursing Mothers
Advise patients to notify their physician if they are breast-feeding or plan to breast-feed [see Use in Specific Populations (8.3)].

17.6 Drug Interactions
Advising 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-Drug Interactions (7)].

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

17.8 Hypersensitivity
Informing patients to tell their physician if they develop a rash, itching, or breathing difficulties after taking AXERT [see Warnings and Precautions (5.7)].

17.9 FDA-Approved Patient Labeling
Please read this information before you start taking AXERT (almotriptan malate) Tablets. Also, read this leaflet each time you renew your prescription, just in case anything has changed. Remember, this leaflet does not take the place of careful discussions with your doctor. You and your doctor should discuss AXERT when you start taking your medication and at regular checkups.

What is AXERT and what is it used for?

AXERT is a medication used to treat migraine attacks in adults and adolescents aged 12 to 17 years. AXERT is a member of a class of drugs called selective serotonin receptor agonists.

Use AXERT only for a migraine attack. Do not use AXERT to treat headaches that might be caused by other conditions. Tell your doctor about your symptoms. Your doctor will decide if you have migraine.

There is more information about migraine at the end of this leaflet.

Who should not take AXERT?*

Do not take AXERT if you

- have ever had heart disease.
- have uncontrolled high blood pressure.
- have hemiplegic or basilar migraine. If you are not sure, ask your doctor.
- have taken another serotonin receptor agonist (e.g. another triptan) in the last 24 hours. These include naratriptan (AMERGE®), rizatriptan (MAXALT®), sumatriptan (IMITREX®, TREXIMET®), or zolmitriptan (ZOMIG®).2
- have taken ergotamine-type medicines in the last 24 hours. These include ergotamine (BELLERGAL-S®, CAFERGOT®, ERGOMAR®, WIGRAINE®), dihydroergotamine (D.H.E. 45®), or methysergide (SANSERT®).
- had an allergic reaction to AXERT or any of its ingredients. The active ingredient is almotriptan malate. Ask your doctor or pharmacist about inactive ingredients.
Tell your doctor if you take

- monoamine oxidase (MAO) inhibitors, such as phenelzine sulfate (NARDIL®) or tranylcypromine sulfate (PARNATE®) for depression or another condition, or if it has been less than two weeks since you stopped taking an MAO inhibitor.
- ketoconazole (NIZORAL®), itraconazole (SPORANOX®), ritonavir (NORVIR®), or erythromycin (EMYCIN®), or if it has been less than one week since you stopped taking one of these drugs.
- selective serotonin reuptake inhibitors (SSRIs) or serotonin norepinephrine reuptake inhibitors (SNRIs), two types of drugs for depression or other disorders. Common SSRIs are CELEXA® (citalopram HBr), LEXAPRO® (escitalopram oxalate), PAXIL® (paroxetine), PROZAC®/SARAFEM® (fluoxetine), SYMBYAX® (olanzapine/fluoxetine), ZOLOFT® (sertraline), and fluvoxamine. Common SNRIs are CYMBALTA® (duloxetine) and EFFEXOR® (venlafaxine).

*The brands listed are the trademarks of their respective owners and are not the trademarks of Ortho-McNeil Pharmaceutical, Inc.

These medicines may affect how AXERT works, or AXERT may affect how these medicines work.

To help your doctor decide if AXERT is right for you or if you need to be checked while taking AXERT, tell your doctor about any

- past or present medical problems.
- past or present high blood pressure, chest pain, shortness of breath, or heart disease.
- liver or kidney problems.
- risk factors for heart disease, such as:
  - high blood pressure
  - diabetes
  - high cholesterol
  - overweight
  - smoking
  - family members with heart disease
  - you are past menopause
  - you are a male over 40 years old.
allergic reactions to sulfonamides, also known as sulfa drugs (ask your doctor if you are not sure what sulfonamide drugs are).

medicines you take or plan to take, including prescription and non-prescription medicines and herbal supplements. Be sure to include medicines you normally take for a migraine.

Talk to your doctor about using AXERT if you are pregnant, planning to become pregnant, or breastfeeding.

How should I take AXERT?

• When you have a migraine headache, take your medicine as directed by your doctor.
• 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 two AXERT Tablets in a 24-hour period.
• If you take too much medicine, contact your doctor, hospital emergency department, or poison control center right away.

What should I avoid while taking AXERT?

Check with your doctor before you take any new medicines, including prescription and non-prescription medicines and supplements. There are some medicines that you should not take during the period 24 hours before and 24 hours after taking AXERT. Some of them are listed in the section “Who should not take AXERT?”

What are the possible side effects of AXERT?

The side effects are usually mild and do not last long. The following is not a complete list of side effects. Ask your doctor to tell you about the other side effects.

The most common side effects in adults are

• Nausea
• Sleepiness
• Tingling or burning feeling (paresthesia)
• Headache
• Dry mouth

The most common side effects in adolescents are
• Dizziness  
• Sleepiness  
• Nausea  
• Headache  
• Tingling or burning feeling (paresthesia)  
• Vomiting

If you experience sleepiness, you should evaluate your ability to perform complex tasks such as driving or operating heavy machinery.

Tell your doctor about any other symptoms that you develop while taking AXERT®. If the symptoms continue or worsen, get medical help right away. Also, tell your doctor if you develop a rash or itching after taking AXERT. You may be allergic to the medicine.

In very rare cases, patients taking this class of medicines experience serious heart problems, stroke, or increased blood pressure. Extremely rarely, patients have died. Therefore, tell your doctor right away if you feel tightness, pain, pressure, or heaviness in your chest, throat, neck, or jaw after taking AXERT. Do not take AXERT again until your doctor has checked you.

Some people may have a reaction called serotonin syndrome, which can be life-threatening, when they use AXERT. In particular, this reaction may occur when they use AXERT together with certain types of antidepressants known as SSRIs or SNRIs. Symptoms may include mental changes (hallucinations, agitation, coma), fast heartbeat, changes in blood pressure, high body temperature or sweating, tight muscles, trouble walking, nausea, vomiting, diarrhea. Call your doctor immediately if you have any of these symptoms after taking AXERT.

This is not a complete list of side effects. Talk to your doctor if you develop any symptoms that concern you.

**What to do in case of an overdose?**

Call your doctor or poison control center or go to the ER.

**What is a migraine and how does it differ from other headaches?**

A migraine is an intense, throbbing, typically one-sided headache. It often includes nausea, vomiting, sensitivity to light, and sensitivity to sound. The pain and symptoms from a migraine headache may be worse than the pain and symptoms of a common headache.
Some people have visual symptoms before the headache, such as flashing lights or wavy lines, called an aura.

Migraine attacks typically last for hours or, rarely, for more than a day. They can return often. The strength and frequency of migraine attacks may vary.

Based on your symptoms, your doctor will decide whether you have migraine.

Migraine headaches tend to occur in members of the same family. Both men and women get migraines, but it is more common in women.

**What may trigger a migraine attack?**

Certain things may trigger migraine attacks in some people. Some of these triggers are

- Certain foods or drinks, such as cheese, chocolate, citrus fruit (oranges, grapefruit, lemons, lime, and others), caffeine, and alcohol.
- Stress.
- Change in behavior, such as too much or too little sleep, missing a meal, or a change in diet.
- Hormone changes in women, such as during monthly menstrual periods.

You may be able to prevent migraine attacks or make them come less often if you understand what triggers your attacks. Keeping a headache diary may help you identify and monitor the possible triggers that cause your migraine. Once you identify the triggers, you and your doctor can change your lifestyle to avoid those triggers.

**How does AXERT work during a migraine attack?**

**Treatment with AXERT**

- reduces swelling of blood vessels surrounding the brain. This swelling is associated with the headache pain of a migraine attack.
- blocks the release of substances from nerve endings that cause more pain and other symptoms of migraine.
- interrupts the sending of specific pain signals to your brain.

It is thought that each of these actions contributes to relief of your symptoms by AXERT.
**How should I store AXERT?**

Keep your medicine in a safe place where children cannot reach it. It may be harmful to children. Store your medicine away from heat, light, or moisture at a controlled room temperature. If your medicine has expired, throw it away as instructed. If your doctor decides to stop your treatment, do not keep any leftover medicine unless your doctor tells you to do so. Throw away your medicine as instructed. Be sure that discarded tablets are out of the reach of children.

**General advice about prescription medicines**

Medicines are sometimes prescribed for conditions that are not mentioned in patient information leaflets. Do not use AXERT for a condition for which it was not prescribed. Do not give AXERT to other people, even if they have the same symptoms you have. People may be harmed if they take medicines that have not been prescribed for them.

This leaflet provides a summary of information about AXERT. If you have any questions or concerns about either AXERT or migraines, talk to your doctor. In addition, talk to your pharmacist or other health care provider.

AXERT Tablets are manufactured by:
Janssen-Ortho, LLC
Gurabo, Puerto Rico 00778

AXERT Tablets are manufactured for:
Ortho-McNeil Neurologics, Division of Ortho-McNeil-Janssen Pharmaceuticals, Inc.
Raritan, NJ 08869

Licensed from: Laboratorios Almirall, S.A.

US Patent No. 5,565,447