HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use ZOMIG Nasal Spray safely and effectively. See full prescribing information for ZOMIG Nasal Spray.

ZOMIG® (zolmitriptan) nasal spray

INITIAL U.S. APPROVAL: 1997

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INDICATIONS AND USAGE

• ZOMIG Nasal Spray is a serotonin (5-HT1D) receptor agonist (triptan) indicated for the acute treatment of migraine with or without aura in adults and pediatric patients 12 years and older. (1)

Limitations of Use:

• Use only after a clear diagnosis of migraine has been established (1)
• Not intended for the prophylactic therapy of migraine (1)
• Use only after a clear diagnosis of migraine has been established (1)
• Not recommended for the treatment of cluster headache (1)
• Not intended for the prophylactic therapy of migraine (1)
• Hypersensitivity to ZOMIG (4)
• MAO-A inhibitor used in past 2 weeks (4)
• Recent (within 24 hours) use of another 5-HT1 agonist (e.g., another triptan) or an ergot-type medication (4)
• History of ischemic heart disease or coronary artery vasospasm (4)
• Symptomatic Wolff-Parkinson-White syndrome or other cardiac accessory conduction pathway disorders (4)
• History of stroke, transient ischemic attack, or hemiplegic or basilar migraine (4)
• Peripheral Vascular Disease (4)
• Ischemic bowel disease (4)
• Uncontrolled hypertension (4)
• Recent (within 24 hours) use of another 5-HT1 agonist (e.g., another triptan) or an ergot-type medication (4)
• MAO-A inhibitor used in past 2 weeks (4)
• Hypersensitivity to ZOMIG (4)

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DOSE AND ADMINISTRATION

• Recommended starting dose: 2.5 mg (2.1)
• Maximum single dose: 5 mg (2.1)
• May repeat dose after 2 hours if needed; not to exceed 10 mg in any 24-hour period (2.1)

DOSE FORMS AND STRENGTHS

Nasal Spray: 2.5 mg and 5 mg (3)

CONTRAINDICATIONS

• History of ischemic heart disease or coronary artery vasospasm (4)
• Symptomatic Wolff-Parkinson-White syndrome or other cardiac accessory conduction pathway disorders (4)
• History of stroke, transient ischemic attack, or hemiplegic or basilar migraine (4)
• Peripheral Vascular Disease (4)
• Ischemic bowel disease (4)
• Uncontrolled hypertension (4)
• Recent (within 24 hours) use of another 5-HT1 agonist (e.g., another triptan) or an ergot-type medication (4)
• MAO-A inhibitor used in past 2 weeks (4)
• Hypersensitivity to ZOMIG (4)

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FULL PRESCRIBING INFORMATION: CONTENTS*

1 INDICATIONS AND USAGE
2 DOSAGE AND ADMINISTRATION
   2.1 Dosing Information
   2.2 Dosing in Patients with Hepatic Impairment
   2.3 Dosing in Patients taking Cimetidine
3 DOSAGE FORMS AND STRENGTHS
4 CONTRAINDICATIONS
5 WARNINGS AND PRECAUTIONS
   5.1 Myocardial Ischemia, Myocardial Infarction, and Prinzmetal's Angina
   5.2 Arrhythmias
   5.3 Chest, Throat, Neck, and/or Jaw Pain/Tightness/Pressure
   5.4 Cerebrovascular Events
   5.5 Other Vasospasm Reactions
   5.6 Medication Overuse Headache
   5.7 Serotonin Syndrome
   5.8 Increase in Blood Pressure
6 ADVERSE REACTIONS
   6.1 Clinical Trials Experience
   6.2 Postmarketing Experience
7 DRUG INTERACTIONS
   7.1 Ergot-containing drugs
   7.2 MAO-A Inhibitors
   7.3 5-HT1D/1B agonists (e.g., triptans)
   7.4 Cimetidine
   7.5 Selective Serotonin Reuptake Inhibitors/Serotonin Norepinephrine Reuptake Inhibitors and Serotonin Syndrome
8 USE IN SPECIFIC POPULATIONS
   8.1 Pregnancy
   8.3 Nursing Mothers
   8.4 Pediatric Use
   8.5 Geriatric Use
   8.6 Hepatic Impairment
9 OVERDOSAGE
10 DESCRIPTION
11 CLINICAL PHARMACOLOGY
   12.1 Mechanism of Action
   12.3 Pharmacokinetics
13 NONCLINICAL TOXICOLOGY
   13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
14 CLINICAL STUDIES
   14.1 Adults
   14.2 Pediatric Patients 12 to 17 Years of Age
16 HOW SUPPLIED/STORAGE AND HANDLING
17 PATIENT COUNSELING INFORMATION

*Sections or subsections omitted from the full prescribing information are not listed.
FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

ZOMIG Nasal Spray is indicated for the acute treatment of migraine with or without aura in adults and pediatric patients 12 years of age and older.

Limitations of Use
- Only use ZOMIG if a clear diagnosis of migraine has been established. If a patient has no response to ZOMIG treatment for the first migraine attack, reconsider the diagnosis of migraine before ZOMIG is administered to treat any subsequent attacks.
- ZOMIG is not indicated for the prevention of migraine attacks.
- Safety and effectiveness of ZOMIG have not been established for cluster headache.
- Not recommended in patients with moderate or severe hepatic impairment [see Dosage and Administration (2.2)].

2 DOSAGE AND ADMINISTRATION

2.1 Dosing

The recommended starting dose for ZOMIG nasal spray in adult and pediatric patients 12 years of age and older is 2.5 mg. As the individual response to ZOMIG nasal spray may vary, the dose should be adjusted on an individual basis. The maximum recommended single dose of ZOMIG is 5 mg.

If the migraine has not resolved by 2 hours after taking ZOMIG, or returns after a transient improvement, another dose may be administered at least 2 hours after the previous dose.

The maximum daily dose should not exceed 10 mg in any 24-hour period.

The safety of ZOMIG in the treatment of an average of more than four headaches in a 30-day period has not been established.

2.2 Dosing in Patients with Hepatic Impairment

ZOMIG nasal spray is not recommended in patients with moderate to severe hepatic impairment because of increased zolmitriptan blood levels in these patients and elevation of blood pressure in some of these patients. The recommended dosage of ZOMIG nasal spray in patients with mild hepatic impairment is the same as for patients with normal hepatic function [see Dosage and Administration (2.1), Warnings and Precautions (5.8), Use in Specific Populations (8.6) and Clinical Pharmacology (12.3)].

2.3 Dosing in Patients taking Cimetine

If ZOMIG is co-administered with cimetidine, limit the maximum single dose of ZOMIG to 2.5 mg, not to exceed 5 mg in any 24-hour period [see Drug Interactions (7.4) and Clinical Pharmacology (12.3)].

3 DOSAGE FORMS AND STRENGTHS

Nasal Spray 2.5 mg and 5 mg.

4 CONTRAINDICATIONS

ZOMIG is contraindicated in patients with:
- Ischemic coronary artery disease (angina pectoris, history of myocardial infarction, or documented silent ischemia), other significant underlying cardiovascular disease, or coronary artery vasospasm including Prinzmetal’s angina [see Warnings and Precautions (5.1)].
- Wolff-Parkinson-White Syndrome or arrhythmias associated with other cardiac accessory conduction pathway disorders [see Warnings and Precautions (5.2)].
- History of stroke, transient ischemic attack (TIA) or history of hemiplegic or basilar migraine because these patients are at higher risk of stroke [see Warnings and Precautions (5.4)].
- Peripheral vascular disease (PVD) [see Warnings and Precautions (5.5)].
- Ischemic bowel disease [see Warnings and Precautions (5.5)].
- Uncontrolled hypertension [see Warnings and Precautions (5.8)].
- Recent use (i.e., within 24 hours) of another 5-HT1 agonist, ergotamine-containing medication, or ergot-type medication (such as dihydroergotamine or methysergide) [see Drug Interactions (7.1, 7.3)].
- Concurrent administration of an MAO-A inhibitor or recent discontinuation of a MAO-A inhibitor (that is within 2 weeks) [see Drug Interactions (7.2) and Clinical Pharmacology (12.3)].
- Known hypersensitivity to ZOMIG (angioedema and anaphylaxis seen) [see Adverse Reactions (6.2)].

5 WARNINGS AND PRECAUTIONS

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

ZOMIG is contraindicated in patients with ischemic or vasospastic coronary artery disease (CAD). There have been rare reports of serious cardiac adverse reactions, including acute myocardial infarction, occurring within a few hours following administration of ZOMIG. Some of these reactions occurred in patients without known CAD. 5-HT1 agonists including ZOMIG may cause coronary artery vasospasm (Prinzmetal’s Angina), even in patients without a history of CAD.

Perform a cardiovascular evaluation in triptan-naive patients who have multiple cardiovascular risk factors (e.g., increased age, diabetes, hypertension, smoking, obesity, strong family history of CAD) prior to receiving ZOMIG. Do not administer ZOMIG if there is evidence of CAD or coronary artery vasospasm [see Contraindications (4)]. For patients with multiple cardiovascular risk factors who have a negative cardiovascular evaluation, consider administering the first ZOMIG dose in a medically-supervised setting and performing an electrocardiogram (ECG) immediately following ZOMIG administration. For such patients, consider periodic cardiovascular evaluation in intermittent long-term users of ZOMIG.

5.2 Arrhythmias

Life-threatening disturbances of cardiac rhythm including ventricular tachycardia and ventricular fibrillation leading to death have been reported within a few hours following the administration of 5-HT1 agonists. Discontinue ZOMIG if these disturbances occur. Patients with Wolff-Parkinson-White Syndrome or arrhythmias associated with other cardiac accessory conduction pathway disorders should not receive ZOMIG [see Contraindications (4)].

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

As with other 5-HT1 agonists, sensations of tightness, pain, pressure, and heaviness in the precordium, throat, neck, and jaw commonly occur after treatment with ZOMIG and is usually non-cardiac in origin. However, if a cardiac origin is suspected, patients should be evaluated. Patients shown to have CAD and those with Prinzmetal’s variant angina should not receive 5-HT1 agonists [see Contraindications (4)].

5.4 Cerebrovascular Events

Cerebral hemorrhage, subarachnoid hemorrhage, and stroke have occurred in patients treated with 5-HT1 agonists, and some have resulted in fatalities. In a number of cases, it appears possible that the cerebrovascular events were primary, the 5-HT1 agonist having been administered in the incorrect belief that the symptoms experienced were a consequence of migraine, when they were not. Discontinue ZOMIG if a cerebrovascular event occurs.

As with other acute migraine therapies, before treating headaches in patients not previously diagnosed as migraineurs, and in migraineurs who present with symptoms atypical for migraine, other potentially serious neurological conditions should be excluded. ZOMIG should not be administered to patients with a history of stroke or transient ischemic attack [see Contraindications (4)].

5.5 Other Vasospasm Reactions

5-HT1 agonists, including ZOMIG, may cause non-coronary vasospastic reactions, such as peripheral vascular ischemia, gastrointestinal vascular ischemia and infarction (presenting with abdominal pain and bloody diarrhea), splenic infarction, and Raynaud’s syndrome. In patients who experience symptoms or signs suggestive of vasospasm reaction following the use of any 5-HT1 agonist, the suspected vasospasm reaction should be ruled out before receiving additional ZOMIG doses [see Contraindications (4)].

Reports of transient and permanent blindness and significant partial vision loss have been reported with the use of 5-HT1 agonists. Since visual disorders may be part of a migraine attack, a causal relationship between these events and the use of 5-HT1 agonists have not been clearly established.

5.6 Medication Overuse Headache

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

5.7 Serotonin Syndrome

Serotonin syndrome may occur with triptans, including ZOMIG, particularly during co-administration with selective serotonin reuptake inhibitors (SSRIs), serotonin norepinephrine reuptake inhibitors (SNRIs), tricyclic antidepressants (TCAs), and MAO inhibitors [see Drug Interactions (7.5)]. Serotonin syndrome symptoms may include mental status changes (e.g., agitation, hallucinations, coma), autonomic instability (e.g., tachycardia, labile blood pressure, hyperthermia), neuromuscular abnormalities (e.g., hyperreflexia, incoordination), and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). The onset of symptoms usually rapidly occurs within minutes to hours of receiving a new or a greater dose of a serotonergic medication. ZOMIG treatment should be discontinued if serotonin syndrome is suspected [see Drug Interactions (7.5) and Patient Counseling Information (17)].
5.8 Increase in Blood Pressure

Significant elevations in systemic blood pressure have been reported in patients treated with 5-HT1 agonists including patients without a history of hypertension. Very rarely these increases in blood pressure have been associated with significant clinical events. In healthy subjects treated with 5 mg of ZOMIG oral tablet, an increase of 1 and 5 mm Hg in the systolic and diastolic blood pressure, respectively, was seen. In a study of patients with moderate to severe liver impairment, 7 of 27 patients experienced 20 to 80 mm Hg elevations in systolic and/or diastolic blood pressure after a dose of 10 mg of ZOMIG oral tablet. As with all triptans, blood pressure should be monitored in ZOMIG-treated patients. ZOMIG is contraindicated in patients with uncontrolled hypertension [see Contraindications (4)].

6 ADVERSE REACTIONS

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

- Myocardial Ischemia, Myocardial Infarction, and Prinzmetal’s Angina [see Warnings and Precautions (5.1)]
- Arrhythmias [see Warnings and Precautions (5.2)]
- Chest, Throat, Neck and/or Jaw Pain/Tightness/Pressure [see Warnings and Precautions (5.3)]
- Cerebrovascular Events [see Warnings and Precautions (5.4)]
- Other Vasospasm Reactions [see Warnings and Precautions (5.5)]
- Medication Overuse Headache [see Warnings and Precautions (5.6)]
- Serotonin Syndrome [see Warnings and Precautions (5.7)]
- Increase in Blood Pressure [see Warnings and Precautions (5.8)]

6.1 Clinical Trials Experience

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.

Adults

Among 460 patients using ZOMIG 2.5 mg or 5 mg in the controlled clinical trial, approximately 3% noted local irritation or soreness at the site of administration. Adverse reactions of any kind, perceived in the nasopharynx (which may include systemic effects of triptans) were severe in about 1% of patients and approximately 57% resolved in 1 hour. Nasopharyngeal examinations, in a subset of patients participating in two long term trials of up to one year duration, failed to demonstrate any clinically significant changes with repeated use of ZOMIG nasal spray.

All nasopharyngeal adverse reactions with an incidence of ≥ 2% of patients in any ZOMIG nasal spray dose groups are included in Table 1.

Other Adverse Reactions:

- Cardiovascular: Infrequent: atrial fibrillation, palpitation, tachycardia, bradycardia.
- Digestive: Rare: constipation, diarrhea, nausea.
- Dermatological: Rare: pruritus, rash, urticaria.
- Neurological: Infrequent: agitation, anxiety, depression, insomnia, nervousness, tremor.
- Respiratory: Infrequent: bronchitis, increased cough, dyspnea, epistaxis, laryngeal edema, pharyngitis, rhinitis, sinusitis.
- Skin: Infrequent: pruritus, rash, urticaria.
- Urogenital: Infrequent: polyuria and urinary urgency. Rare: urinary frequency.
- Special senses: Infrequent: tinnitus. Rare: conjunctivitis, dry eye, and visual field defect.

The adverse reaction profile seen with ZOMIG nasal spray is similar to that seen with ZOMIG tablets and ZOMIG-ZMT tablets except for the occurrence of local adverse reactions from the nasal spray (see ZOMIG tablet/ZOMIG-ZMT oral disintegrating tablet Prescribing Information).

Pediatric Patients 12 to 17 Years of Age

The safety of ZOMIG nasal spray in the acute treatment of migraine in pediatric patients 12 to 17 years of age was established in two studies [see Pediatric Use (8.4) and Clinical Studies (14.2)].

The most common adverse reactions (incidence of ≥ 2% of pediatric patients receiving 2.5 mg and 5 mg ZOMIG nasal spray and numerically greater than placebo) after a single dose are summarized in Table 2. Dysgeusia (unusual taste) was the most common adverse reaction, with a numerically greater incidence for patients receiving ZOMIG compared to placebo (10% vs. 2%). Other common adverse reactions were nasal discomfort, dizziness, oropharyngeal pain, and nausea.

Table 2 lists the adverse reactions from the pooled placebo-controlled studies that occurred in ≥ 2% of pediatric patients 12 to 17 years of age in either the 2.5 mg or 5 mg ZOMIG dose groups and with an incidence greater than placebo.

In Study 1, adverse reactions occurring in ≥ 1% and < 2% of patients in all attacks in either ZOMIG nasal spray dose group and with incidence greater than that of placebo were: abdominal pain, chills, throat pressure, facial edema, chest pressure, palpitation, dysphagia, arthralgia, myalgia, and depersonalization.

The incidence of adverse reactions in controlled clinical trials was not affected by gender, weight, or age of the patients (18-39 vs. 40-65 years of age), or presence of aura. There were insufficient data to assess the impact of race on the incidence of adverse reactions.

### Table 1: Adverse reactions in a Placebo-Controlled Study in Adult Patients with Migraine (Study 1)

<table>
<thead>
<tr>
<th>Body System</th>
<th>Placebo (N=228)</th>
<th>ZOMIG 2.5 mg (N=224)</th>
<th>ZOMIG 5 mg (N=236)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Atypical Sensations</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hyperesthesia</td>
<td>0%</td>
<td>1%</td>
<td>5%</td>
</tr>
<tr>
<td>Paraesthesia</td>
<td>6%</td>
<td>5%</td>
<td>10%</td>
</tr>
<tr>
<td>Warm Sensation</td>
<td>2%</td>
<td>4%</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Ear/Nose/Throat</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disorder/Discomfort of nasal cavity</td>
<td>2%</td>
<td>1%</td>
<td>3%</td>
</tr>
<tr>
<td><strong>Pain and Pressure Sensations</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pain Location Specified</td>
<td>1%</td>
<td>2%</td>
<td>4%</td>
</tr>
<tr>
<td>Throat Pain</td>
<td>1%</td>
<td>4%</td>
<td>4%</td>
</tr>
<tr>
<td>Throat Tightness</td>
<td>1%</td>
<td>&lt;1%</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Digestive</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry Mouth</td>
<td>&lt;1%</td>
<td>3%</td>
<td>2%</td>
</tr>
<tr>
<td>Nausea</td>
<td>1%</td>
<td>1%</td>
<td>4%</td>
</tr>
<tr>
<td><strong>Neurological</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dizziness</td>
<td>4%</td>
<td>6%</td>
<td>3%</td>
</tr>
<tr>
<td>Somnolence</td>
<td>2%</td>
<td>1%</td>
<td>4%</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unusual Taste</td>
<td>3%</td>
<td>17%</td>
<td>21%</td>
</tr>
<tr>
<td>Asthenia</td>
<td>1%</td>
<td>3%</td>
<td>3%</td>
</tr>
</tbody>
</table>
The adverse reaction profile was similar across gender. There were insufficient data to assess the impact of race on the incidence of adverse reactions.

### 6.2 Postmarketing Experience

The following adverse reactions were identified during post approval use of ZOMIG. 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.

The reactions enumerated include all except those already listed in the Clinical Trials Experience section above or the Warnings and Precautions section.

#### Hypersensitivity Reactions:

There have been reports of anaphylaxis, anaphylactoid, and hypersensitivity reactions, including angioedema, in patients receiving ZOMIG. ZOMIG is contraindicated in patients with a history of hypersensitivity reaction to ZOMIG.

### 7 DRUG INTERACTIONS

#### 7.1 Ergot-containing drugs

Ergot-containing drugs have been reported to cause prolonged vasospastic reactions. Because these effects may be additive, use of ergotamine-containing or ergot-type medications (like dihydroergotamine or methysergide) and ZOMIG is contraindicated in patients with a history of vasospastic reactions to ZOMIG.

#### 7.2 MAO-A Inhibitors

MAO-A inhibitors increase the systemic exposure of zolmitriptan. Therefore, the use of ZOMIG in patients receiving MAO-A inhibitors is contraindicated [see Contraindications (4) and Clinical Pharmacology (12.3)].

#### 7.3 5-HT1B/1D agonists (e.g. triptans)

Concomitant use of other 5-HT1B/1D agonists (including triptans) within 24 hours of each other is contraindicated [see Contraindications (4)].

#### 7.4 Cimetidine

Following administration of cimetidine, the half-life and AUC of ZOMIG and ZOMIG are increased in patients receiving ZOMIG [see Clinical Pharmacology (12.3)].

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

Cases of life-threatening serotonin syndrome have been reported during combined use of selective serotonin reuptake inhibitors (SSRIs) or serotonin norepinephrine reuptake inhibitors (SNRIs) and triptans [see Warnings and Precautions (5.7)].

### 8 USE IN SPECIFIC POPULATIONS

#### 8.1 Pregnancy

Pregnancy Category C. There are no adequate and well-controlled studies in pregnant women; therefore, zolmitriptan should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. In reproductive toxicology studies in rats and rabbits, oral administration of zolmitriptan to pregnant animals resulted in embryolethality and fetal abnormalities (malformations and variations) at clinically relevant exposures.

When zolmitriptan was administered to pregnant rats during the period of organogenesis at oral doses of 100, 400, and 1200 mg/kg/day (plasma exposures (AUCs) ~280, 1100, and 5000 times the human AUC at the maximum recommended human dose (MRHD) of 10 mg/day), there was a dose-related increase in embryolethality. A no-effect dose for embryolethality was not established. When zolmitriptan was administered to pregnant rabbits during the period of organogenesis at oral doses of 3, 10, and 30 mg/kg/day (plasma AUCs ~1, 11, and 42 times the human AUC at the MRHD), there were increases in embryolethality and in fetal malformations and variations. The no-effect dose for adverse effects on embryo-fetal development was associated with a plasma AUC similar to that in humans at the MRHD. When female rats were given zolmitriptan during gestation, parturition, and lactation at oral doses of 25, 100, and 400 mg/kg/day (plasma AUCs ~70, 280, and 1100 times that in humans at the MRHD), an increased incidence of hydrencephalus was found in the offspring. The no-effect dose was associated with a plasma AUC ~280 times that in humans at the MRHD.

### 8.3 Nursing Mothers

It is not known whether zolmitriptan is excreted in human milk. Because many drugs are excreted in human milk, and because of the potential for serious adverse reactions in nursing infants from ZOMIG, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother. In rats, oral dosing with zolmitriptan resulted in levels in milk up to 4 times higher than in plasma.

### 8.4 Pediatric Use

Safety and effectiveness of ZOMIG in pediatric patients under 12 years of age have not been established.

The efficacy of ZOMIG nasal spray in the acute treatment of migraine in pediatric patients 12 to 17 years of age was established in a placebo-controlled study with a total of 81 pediatric patients receiving ZOMIG 2.5 mg and 229 pediatric patients receiving ZOMIG 5 mg [see Clinical Studies (14.2)].

In an earlier study with a different design, ZOMIG 5 mg nasal spray was evaluated in the acute treatment of migraine headache in 171 pediatric patients 12 to 17 years of age. In that study, the efficacy of ZOMIG nasal spray was not established.

The safety of ZOMIG nasal spray in the acute treatment of migraine in pediatric patients 12 to 17 years of age was established in two placebo-controlled studies with a total of 81 pediatric patients receiving ZOMIG 2.5 mg and 431 pediatric patients receiving ZOMIG 5 mg [see Adverse Reactions (6.1)].

The safety profile of ZOMIG nasal spray in pediatric patients 12 to 17 years of age is similar to the profile observed in adults [see Adverse Reactions (6.1)].

The postmarketing experience with triptans, including ZOMIG, there is a limited number of reports that describe pediatric patients who have experienced clinically serious adverse events; those that were reported are similar in nature to those reported rarely in adults.

### 8.5 Geriatric Use

Clinical studies of ZOMIG did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy. Geriatric patients who have other cardiovascular risk factors (e.g., diabetes, hypertension, smoking, obesity, strong family history of coronary artery disease) should have a cardiovascular evaluation prior to receiving ZOMIG [see Warnings and Precautions (5.8)].

The pharmacokinetics of zolmitriptan were similar in geriatric patients (aged >65 years) compared to younger patients [see Clinical Pharmacology (12.3)].

### 8.6 Hepatic Impairment

The effect of hepatic disease on the pharmacokinetics of zolmitriptan nasal spray has not been evaluated. After oral administration, zolmitriptan blood levels were increased in patients with moderate to severe hepatic impairment, and significant elevation in blood pressure was observed in some of these patients [see Warnings and Precautions (5.8)]. ZOMIG nasal spray is not recommended in patients with moderate to severe hepatic impairment [see Dosage and Administration (2.2) and Clinical Pharmacology (12.3)].

### 10 OVERDOSAGE

There is no experience with acute overdose. Clinical study subjects receiving single 50 mg oral doses of zolmitriptan commonly experienced sedation.

The elimination half-life of ZOMIG is 3 hours [see Clinical Pharmacology (12.3)] and therefore monitoring of patients after overdose with ZOMIG should continue for at least 15 hours or while symptoms or signs persist.

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

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

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**Table 2: Adverse reactions in Pediatric Patients 12 to 17 years of Age with Migraine**

<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>Placebo (N=437)</th>
<th>ZOMIG 2.5 mg (N=81)</th>
<th>ZOMIG 5 mg (N=431)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unusual taste</td>
<td>2%</td>
<td>6%</td>
<td>10%</td>
</tr>
<tr>
<td>Nasal discomfort</td>
<td>1%</td>
<td>3%</td>
<td>3%</td>
</tr>
<tr>
<td>Dizziness</td>
<td>1%</td>
<td>0%</td>
<td>2%</td>
</tr>
<tr>
<td>Oropharyngeal pain</td>
<td>2%</td>
<td>0%</td>
<td>2%</td>
</tr>
<tr>
<td>Nausea</td>
<td>1%</td>
<td>1%</td>
<td>2%</td>
</tr>
</tbody>
</table>
11 DESCRIPTION

ZOMIG® (zolmitriptan) Nasal Spray contains zolmitriptan, which is a selective 5-hydroxytryptamine1B/1D (5-HT1B/1D) receptor agonist. Zolmitriptan is chemically designated as (5)-4-[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]-2-oxazolidinone and has the following chemical structure:

```
          O
         /    /
        /     /
       O     /     /
      /      /     /
     /       /     /
    /        /     /
   O        /     /
  /        /     /
 /         /     /
```

The empirical formula is C16H21N3O2, representing a molecular weight of 287.36. Zolmitriptan is a white to almost white powder that is readily soluble in water. ZOMIG Nasal Spray is supplied as a clear to pale yellow solution of zolmitriptan, buffered to a pH 5.0. Each ZOMIG Nasal Spray contains 2.5 mg or 5 mg of zolmitriptan in a 100-µL unit dose aqueous buffered solution containing citric acid, anhydrous, USP, disodium phosphate dodecahydrate USP and purified water USP.

ZOMIG Nasal Spray is hypersonic. The osmolarity of ZOMIG Nasal Spray for 2.5 mg is 360 to 420 mOsmol, and for 5 mg is 420 to 470 mOsmol.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Zolmitriptan binds with high affinity to human recombinant 5-HT1B and 5-HT1D receptors, and moderate affinity for 5-HT1A receptors. The N-desmethyl metabolite also has high affinity for 5-HT1B and moderate affinity for 5-HT1A receptors.

Current theories proposed to explain the etiology of migraine headache suggest that symptoms are due to local cranial vasodilatation and/or to the release of sensory neuropeptides (vasoactive intestinal peptide, substance P and calcitonin gene-related peptide) through nerve endings in the trigeminal system. The therapeutic activity of ZOMIG for the treatment of migraine headache is thought to be due to the agonist effects at the 5-HT1B/1D receptors on intracranial blood vessels (including the arterio-venous anastomoses) and sensory nerves of the trigeminal system which result in cranial vessel constriction and inhibition of pro-inflammatory neuropeptide release.

12.3 Pharmacokinetics

Absorption

ZOMIG nasal spray is rapidly absorbed via the nasopharynx as detected in a Photon Emission Tomography (PET) study using 14C zolmitriptan. The mean relative bioavailability of the nasal spray formulation is 102%, compared with the oral tablet. Zolmitriptan was detected in plasma by 5 minutes and peak plasma concentration generally was achieved by 3 hours. The time at which maximum plasma concentrations were observed was similar after single (1 day) or multiple (4 days) nasal dosing. Plasma concentrations of zolmitriptan are sustained for 4 to 6 hours after dosing. Zolmitriptan and its active N-desmethyl metabolite display linear kinetics after single or multiple doses of ZOMIG nasal spray over the dose range of 0.1 to 10 mg.

The pharmacokinetics of N-desmethyl metabolite are similar to that of zolmitriptan for all nasal spray dosages. The N-desmethyl metabolite is detected in plasma by 15 minutes and peak plasma concentration is generally achieved by 3 hours after administration.

Food has no significant effect on the bioavailability of zolmitriptan.

Distribution

The mean elimination half-life for zolmitriptan and N-desmethyl metabolite following single or multiple nasal spray administration is approximately 3 hours, similar to the half-life values seen after oral tablet administration. In a study with orally administered zolmitriptan, total radioactivity recovered in urine and feces was 65% and 30% of the administered dose, respectively. In urine, unchanged zolmitriptan and N-desmethyl metabolite accounted for 8% and 4% of the dose, respectively, whereas the inactive indole acetic acid and N-oxide metabolites accounted for 31% and 7% of the dose, respectively. Mean total plasma clearance for zolmitriptan nasal spray is 25.9 mL/min/kg, of which one-sixth is renal clearance. The renal clearance is greater than the glomerular filtration rate suggesting renal tubular secretion.

Specific Populations

Age:
The pharmacokinetics of orally administered zolmitriptan in healthy elderly non-migraine volunteers (age 65-76 yrs) was similar to those in younger non-migraine volunteers (age 18-39 yrs).

Sex:
Mean plasma concentrations of orally administered zolmitriptan were up to 1.5-fold higher in females than males.

Race:
There are no significant differences in the pharmacokinetics of orally administered zolmitriptan in Japanese and Caucasians.

Renal Impairment:
The effect of renal impairment on the pharmacokinetics of zolmitriptan nasal spray has not been evaluated. After orally dosing zolmitriptan, renal clearance was reduced by 25% in patients with severe renal impairment (Clcr ≤ 25 mL/min) compared with the normal group (Clcr ≥ 70 mL/min); no significant change in clearance was observed in the moderately renally impaired group (Clcr ≥ 26 to 50 mL/min).

Hepatic Impairment:
The effect of hepatic disease on the pharmacokinetics of zolmitriptan nasal spray has not been evaluated. In patients with severe hepatic impairment, the mean Clmax, Tmax, and AUC of zolmitriptan dosed orally were increased 1.5-fold, 2-fold (2 vs. 4 hours), and 3-fold, respectively, compared to subjects with normal hepatic function. Seven out of 27 patients experienced 20 to 80 mm Hg elevations in systolic and/or diastolic blood pressure after a 10 mg ZOMIG dose [see Dosage and Administration (2.2) and Use in Specific Populations (8.6)].

Hypertensive Patients:
No differences in the pharmacokinetics of oral zolmitriptan or its effects on blood pressure were seen in mild to moderate hypertensive volunteers compared with normotensive controls.

Drug Interactions

All drug interaction studies were performed in healthy volunteers using a single 10 mg dose of zolmitriptan and a single dose of the other drug except where otherwise noted. Eight drug interaction studies have been performed with zolmitriptan tablets and one study (xylometazoline) was performed with nasal spray.

Xylometazoline:
An in vivo drug interaction study with ZOMIG nasal spray indicated that 1 spray (100 µL dose) of xylometazoline (0.1% w/w), a decongestant, administered 30 minutes prior to a 5 mg nasal dose of zolmitriptan did not alter the pharmacokinetics of zolmitriptan.

Fluoxetine:
The pharmacokinetics of zolmitriptan, as well as its effect on blood pressure, were unaffected by 4 weeks of pre-treatment with oral fluoxetine (20 mg/day).

MAO Inhibitors:
Following one week of administration of moclobemide (150 mg twice-daily), a specific MAO-A inhibitor, there was an increase of about 25% in both Cmax and AUC for zolmitriptan and a 3-fold increase in the Cmax and AUC of the active N-desmethyl metabolite of zolmitriptan [see Contraindications (4) and Drug Interactions (7.2)].

Selegiline, a selective MAO-B inhibitor, at a dose of 10 mg/day for 1 week, had no effect on the pharmacokinetics of zolmitriptan and its metabolite.

Propranolol:
Cmax and AUC of zolmitriptan increased 1.5-fold after one week of dosing with propranolol (160 mg/day). Cmax and AUC of the N-desmethyl metabolite were reduced by 30% and 15%, respectively. There were no interactive effects on blood pressure or pulse rate following administration of propranolol with zolmitriptan.

Acetaminophen:
A single 1g dose of acetaminophen does not alter the pharmacokinetics of zolmitriptan and its N-desmethyl metabolite. However, zolmitriptan delayed the Tmax of acetaminophen by one hour.

Metoclopramide:
A single 10 mg dose of metoclopramide had no effect on the pharmacokinetics of zolmitriptan or its metabolites.
Oral Contraceptives: Retrospective analysis of pharmacokinetic data across studies indicated that mean tₘ₉₅₀ and AUC of zolmitriptan were 30% and 50% higher, respectively, and Tₘ₉₅₀ was delayed by one-half hour in females taking oral contraceptives compared to females not taking oral contraceptives. The effect of zolmitriptan on the pharmacokinetics of oral contraceptives has not been studied.

Cimetidine: Following the administration of cimetidine, the half-life and AUC of a 5 mg dose of zolmitriptan and its active metabolite were approximately doubled. A dosage adjustment is therefore required [see Drug Interactions (7.4)].

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis
Zolmitriptan was administered to mice and rats at doses up to 400 mg/kg/day. Mice were dosed for 85 weeks (males) and 92 weeks (females); rats were dosed for 101 weeks (males) and 86 weeks (females). There was no evidence of drug-induced tumors in mice at maximum recommended human dose (MRHD) of 10 mg/day. In rats, there was an increase in the incidence of thyroid follicular cell hyperplasia and thyroid follicular cell adenomas in male rats receiving 400 mg/kg/day. No increase in tumors was observed in rats at 100 mg/kg/day, a dose associated with a plasma AUC~700 times that in humans at the MRHD.

Mutagenesis
Zolmitriptan was positive in an in vitro bacterial reverse mutation (Ames) assay and an in vitro chromosomal aberration assay in human lymphocytes. Zolmitriptan was negative in an in vitro mammalian gene cell mutation (CHO/HGPRT) assay and in oral in vivo micronucleus assays in mouse and rat.

Impairment of Fertility
Studies of male and female rats administered zolmitriptan prior to and during mating and up to implantation showed no impairment of fertility at oral doses up to 400 mg/kg/day. The plasma exposure (AUC) at this dose was approximately 3000 times that in humans at the MRHD.

14 CLINICAL STUDIES

14.1 Adults
The efficacy of ZOMIG nasal spray 2.5 mg and 5 mg in the acute treatment of migraine headache with or without aura in adults was demonstrated in Study 1, a randomized, outpatient, double-blind, placebo-controlled trial. In Study 1, patients were instructed to treat a moderate to severe headache. Headache response, defined as a reduction in headache severity from moderate or severe pain to mild or no pain, was assessed 15, 30, 45 minutes and 1, 2, and 4 hours after dosing. Pain-free response rates and associated symptoms such as nausea, photophobia, and phonophobia were also assessed. A dose of escape medication was allowed 4 to 24 hours after the initial treatment for persistent and recurrent headache.

In Study 1, of the patients taking ZOMIG nasal spray 2.5 mg or 5 mg, 83% were female and 99% were Caucasian, with a mean age of 41 years (range 18 to 66 years).

The two-hour headache response rates in patients treated with ZOMIG nasal spray were significantly higher among patients receiving ZOMIG nasal spray at all doses, compared with placebo (see Table 3).

Table 3: First Attack Data: Percentage of Adult Patients with Headache Response to ZOMIG Nasal Spray (Mild or No Headache) 2 Hours Following Treatment in Study 1

<table>
<thead>
<tr>
<th></th>
<th>ZOMIG (N=219)</th>
<th>ZOMIG (N=228)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Placebo (N=218)</td>
<td>31%</td>
<td>55%</td>
</tr>
<tr>
<td>2.5 mg</td>
<td>69%</td>
<td>69%</td>
</tr>
</tbody>
</table>

*p < 0.001 in comparison with placebo

The estimated probability of achieving an initial headache response following treatment with ZOMIG nasal spray is depicted in Figure 1.

Figure 1: Estimated probability of achieving an initial headache response after treatment in Study 1

![Graph showing headache response rates](image-url)

Note: Figure 1 shows the Kaplan-Meier plot of the probability over time of obtaining headache response (moderate or severe headache improving to mild or no pain) following treatment with ZOMIG nasal spray. The estimates displayed are based on a placebo controlled, outpatient trial providing evidence of efficacy. Patients not achieving headache response or taking additional treatment prior to 4 hours were censored to 4 hours.

For patients with migraine associated photophobia, phonophobia, and nausea at baseline, there was a decreased incidence of these symptoms following administration of ZOMIG nasal spray as compared with placebo.

Four to 24 hours following the initial dose of study treatment, patients were allowed to use additional treatment for pain relief in the form of a second dose of study treatment or other medication. The estimated probability of patients taking a second dose or other medication for migraine over the 24 hours following the initial dose of study treatment is summarized in Figure 2.

Figure 2: Estimated probability of patients taking an escape medication within the 24 hours following the initial dose of study treatment in Study 1

![Graph showing escape medication usage](image-url)

*This Kaplan-Meier plot is based on data obtained from the placebo controlled clinical trial. Patients not using additional treatments were censored at 24 hours. The plot includes both patients who had headache response at 2 hours and those who had no response to the initial dose. It should be noted that the protocol did not allow remedication within 4 hours post dose.

The efficacy of ZOMIG was unaffected by presence of aura; presence of headache upon awakening, relationship to menses; gender, age or weight of the patient; or presence of pre-treatment nausea.

The efficacy of ZOMIG nasal spray 5 mg was further supported by an interim analysis of another similarly designed trial. The 2-hour headache response rates for the first 210 subjects in that study for ZOMIG 5 mg and placebo were 70% and 47%, respectively (N=108 and 102, respectively, p=0.0006).
14.2 Pediatric Patients 12 to 17 Years of Age

The efficacy of ZOMIG nasal spray in the acute treatment of migraine headache with or without aura in pediatrics patients 12 to 17 years of age was demonstrated in Study 2, a randomized, double-blind, placebo-controlled trial with a single-blind run-in period.

Patients had to have an established diagnosis of migraine (history indicating the presence of migraine for at least 1 year) with or without aura with a typical untreated migraine headache attack lasting 3 hours or more. The study included treatment of a single migraine headache attack with a dose of single-blind placebo during the 30-day run-in period. If the patient met all conditions for randomization, including a lack of response to the placebo run-in, a subsequent single migraine headache attack was treated with a blinded dose of either ZOMIG nasal spray 5 mg, 2.5 mg, or matching placebo.

In Study 2, of the patients taking ZOMIG nasal spray 2.5 mg or 5 mg, 62% were female and 93% were Caucasian, with a mean age of 14 years (range 12 to 17 years).

Study 2 evaluated the proportion of pediatric patients 12 to 17 years of age who had no headache pain at 2 hours following treatment. Headache response (defined as a reduction in migraine-related headache pain severity from moderate or severe pain to mild or no pain) and the absence of nausea, photophobia, and phonophobia at 2 hours post treatment were also assessed. As shown in Table 4, the percentage of pediatric patients 12 to 17 years of age with no headache pain at 2 hours following treatment was significantly higher for ZOMIG nasal spray 5 mg than placebo.

Table 4: Percentage of Pediatric Patients 12 to 17 Years of Age with No Headache Pain, With Headache Response, No Nausea, No Photophobia, and No Phonophobia Two Hours after Treatment in Study 2

<table>
<thead>
<tr>
<th>Two Hours Following Treatment</th>
<th>Placebo (N=253)</th>
<th>ZOMIG 2.5 mg (N=81)</th>
<th>ZOMIG 5 mg (N=229)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Headache Pain</td>
<td>17%</td>
<td>25%</td>
<td>30%*</td>
</tr>
<tr>
<td>With Headache Response</td>
<td>39%</td>
<td>53%</td>
<td>51%*</td>
</tr>
<tr>
<td>No Photophobia</td>
<td>44%</td>
<td>66%</td>
<td>56%*</td>
</tr>
<tr>
<td>No Phonophobia</td>
<td>48%</td>
<td>61%</td>
<td>58%</td>
</tr>
<tr>
<td>No Nausea</td>
<td>66%</td>
<td>70%</td>
<td>72%</td>
</tr>
</tbody>
</table>

*p < 0.05 in comparison with placebo

Two to 24 hours following the initial dose of study treatment, patients were allowed to use their usual medication for pain relief. The estimated probability of patients taking escape medication during the first 24 hours following the initial dose of study treatment is summarized in Figure 3.

Figure 3: Estimated Probability of Pediatric Patients 12 to 17 Years of Age Taking an Escape Medication Within the 24 Hours Following the Initial Dose of Study Treatment in Study 2

16 HOW SUPPLIED/STORAGE AND HANDLING

The ZOMIG Nasal Spray device is a blue-colored plastic device with a gray protection cap, labeled to indicate the nominal dose. Each ZOMIG Nasal Spray device administers a single dose of ZOMIG.

ZOMIG Nasal Spray is supplied as a clear to pale yellow solution of zolmitriptan, buffered to a pH 5.9. Each ZOMIG Nasal Spray device contains 2.5 mg or 5 mg of zolmitriptan in a 100 µL unit dose aqueous buffered solution containing citric acid, anhydrous, USP, disodium phosphate dodecahydrate USP and purified water USP.

2.5 mg ZOMIG® Nasal Spray is supplied in boxes of 6 single-use nasal spray units. (NDC 64896-682-51)
5 mg ZOMIG® Nasal Spray is supplied in boxes of 6 single-use nasal spray units. (NDC 64896-681-51)

Each ZOMIG® Nasal Spray single dose unit spray supplies 2.5 and 5 mg, respectively, of zolmitriptan. The ZOMIG® Nasal Spray unit must be discarded after use.

Store at controlled room temperature, 20-25°C (68-77°F) [see USP].

17 PATIENT COUNSELING INFORMATION

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

Risk of Myocardial Ischemia and/or Infarction, Prinzmetal’s angina, Other Vasospasm-related Events, and Cerebrovascular Events

Inform patients that ZOMIG 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 [see Warnings and Precautions (5.1, 5.2, 5.4, 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)].

Serotonin Syndrome

Inform patients about the risk of serotonin syndrome with the use of ZOMIG or other triptans, particularly during combined use with selective serotonin reuptake inhibitors (SSRIs) or serotonin norepinephrine reuptake inhibitors (SNRIs) [see Warnings and Precautions (5.7)].

Pregnancy

Inform patients that ZOMIG should not be used during pregnancy unless the potential benefit justifies the potential risk to the fetus [see Use in Specific Populations (8.1)].

Nursing Mothers

Advise patients to notify their healthcare provider if they are breastfeeding or plan to breastfeed [see Use in Specific Populations (8.3)].

Handling of ZOMIG nasal spray device

The ZOMIG Nasal Spray device is packaged in a carton and is a blue-colored plastic device with a gray protection cap, labeled to indicate the nominal dose. Caution patients not to remove the gray protection cap until prior to dosing. The ZOMIG Nasal Spray device is placed in a nostril and actuated to deliver a single dose. Caution patients to avoid spraying the contents of the device in their eyes.

11/16 3313312 12/16
Please read this information before you start taking ZOMIG Nasal Spray and each time you renew your prescription just in case anything has changed. Remember, this summary does not take the place of discussions with your doctor. You and your doctor should discuss ZOMIG Nasal Spray when you start taking your medication and at regular checkups.

**What is ZOMIG Nasal Spray?**
ZOMIG Nasal Spray is a prescription medicine used to treat migraine headaches with or without aura in adults and pediatric patients (12 to 17 years of age).

ZOMIG Nasal Spray is not for other types of headaches.
ZOMIG Nasal Spray is not for the prevention of migraine headaches.
ZOMIG Nasal Spray is not for the treatment of cluster headaches.
ZOMIG Nasal Spray is not for the prevention of migraine headaches.
ZOMIG Nasal Spray is not for other types of headaches.

**Who should not use ZOMIG Nasal Spray?**
Do not use ZOMIG Nasal Spray if you have:
- heart problems, a history of heart problems, or problems with the electrical system of your heart
- had a stroke, transient ischemic attacks (TIAs), or problems with your blood circulation
- hemiplegic migraines or basilar migraines. If you are not sure if you have these types of migraines, ask your healthcare provider.
- narrowing of blood vessels to your legs, arms, or stomach (peripheral vascular disease)
- uncontrolled high blood pressure
- used certain medicines called 5-HT1 agonists (“triptans”) such as almotriptan (AXERT®), eletriptan (RELPAX®), frovatriptan (FROVA®), naratriptan (AMERGE®), rizatriptan (MAXALT®), sumatriptan (IMITREX®, sumatriptan/naproxen (TREXIMET®); medicines that contain ergotamine, or ergot medicines such as BELLERGAL-S®, CAFERGOT®, ERGOMAR®, WIGRAINE®; dihydroergotamine like D.H.E. 45® or MIGRANAL®; or methysergide (SANSERT®) in the last 24 hours. Ask your doctor or pharmacist for a list of these medicines if you are not sure.
- are taking a monoamine oxidase A inhibitor (MAO-A inhibitor) or you stopped taking a MAO-A inhibitor in the last 14 days. Ask your doctor if you are not sure if you take an MAO-A inhibitor such as phenelzine sulfate (NARDIL®) or tranylcypromine sulfate (PARNATE®).
- are allergic to zolmitriptan or any of the ingredients in ZOMIG Nasal Spray.

See the end of this leaflet for a complete list of ingredients in ZOMIG Nasal Spray.

**What should I tell my doctor before using ZOMIG Nasal Spray?**
Before using ZOMIG Nasal Spray, tell your doctor about all of your medical conditions, including if you:
- have high blood pressure
- have high cholesterol
- have diabetes
- smoke
- are overweight
- are a female who has gone through menopause
- have heart disease or a family history of heart disease or stroke
- have liver problems
- are pregnant or plan to become pregnant. It is not known if ZOMIG Nasal Spray will harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if ZOMIG Nasal Spray passes into your breast milk. You and your doctor should decide if you will use ZOMIG Nasal Spray or breastfeed.

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 used to treat mood disorders, including selective serotonin reuptake inhibitors (SSRIs), serotonin norepinephrine reuptake inhibitors (SNRIs) or monoamine oxidase inhibitors (MAOIs).
- cimetidine

**How should I use ZOMIG NASAL Spray?**
For detailed instructions, see the step-by-step instructions for using ZOMIG Nasal Spray at the end of this Patient Information.

- Certain people should take their first dose of ZOMIG Nasal Spray in their doctor's office or in another medical setting. Ask your doctor if you should take your first dose in a medical setting.
- Use ZOMIG Nasal Spray exactly as your doctor tells you to use it.
- Your doctor may change your dose. Do not change your dose without first talking with your doctor.
- If your headache comes back after using one nasal spray or you only get some relief from your headache, you can use another nasal spray 2 hours after the previous nasal spray.
- Do not use more than a total of 10 mg of ZOMIG Nasal Spray in any 24-hour period.
- It is not known if it is safe and effective to use ZOMIG Nasal Spray for more than 4 headaches in 30 days.
- Some people who use too much ZOMIG Nasal Spray may have worse headaches (medication overuse headaches). If your headaches get worse, your doctor may decide to stop your treatment with ZOMIG Nasal Spray.
- If you use too much ZOMIG Nasal Spray, call your doctor or go to the nearest hospital emergency room right away.
- You should write down when you have headaches and when you take ZOMIG Nasal Spray so you can talk to your doctor about how ZOMIG Nasal Spray is working for you.
What should I avoid while using ZOMIG Nasal Spray?
ZOMIG Nasal Spray can cause dizziness, weakness, or drowsiness. If you have these symptoms do not drive a car, use machinery, or do anything that needs you to be alert.

What are the possible side effects of ZOMIG Nasal Spray?
ZOMIG Nasal Spray can cause serious side effects.

Call your doctor right away if you have any of the following symptoms after using ZOMIG Nasal Spray:

- **Heart attack and other heart problems.** Heart problems may lead to death. Stop taking ZOMIG Nasal Spray and get emergency medical help right away if you have any of the following symptoms of a heart attack or other heart problems:
  - discomfort in the center of your chest that lasts for more than a few minutes, or that goes away and comes back
  - chest pain or chest discomfort that feels like heavy pressure, squeezing, or fullness
  - 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
  - feeling lightheaded
  - nausea or vomiting with any of the symptoms included above

- **stroke.** Symptoms of stroke include face drooping, slurred speech, and unusual weakness or numbness.

- **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:
  - sudden or severe stomach pain
  - stomach pain after meals
  - weight loss
  - nausea or vomiting
  - constipation or diarrhea
  - bloody diarrhea
  - fever

- **problems with blood circulation to your legs and feet** (peripheral vascular ischemia). Symptoms of peripheral vascular ischemia include:
  - cramping and pain in your legs or hips
  - feeling of heaviness or tightness in your leg muscles
  - burning or aching pain in your feet or toes while resting
  - numbness, tingling, or weakness in your legs
  - cold feeling or color changes in 1 or both legs or feet

- **serotonin syndrome.** Serotonin syndrome is a serious and life-threatening problem that can happen in people using ZOMIG Nasal Spray, especially if ZOMIG Nasal Spray is used with anti-depressant medicines called selective serotonin reuptake inhibitors (SSRIs) or selective norepinephrine reuptake inhibitors (SNRIs).

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

Call your doctor right away 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
- fast heartbeat
- changes in blood pressure
- high body temperature
- tight muscles
- trouble walking
- nausea, vomiting, or diarrhea

- **increased blood pressure**

- **allergic reactions.** Symptons of an allergic reaction include:
  - rash
  - hives
  - itching
  - swelling of the face, mouth throat, or tongue
  - difficulty breathing

The most common side effects of ZOMIG Nasal Spray are:

- unusual taste
- numbness
- dizziness
- skin sensitivity (hyperparesthesia)

These are not all the possible side effects of ZOMIG Nasal Spray. For more information ask your doctor or pharmacist.

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 ZOMIG Nasal Spray?
Store ZOMIG Nasal Spray at room temperature between 68°F to 77°F (20°C -25°C).

Keep ZOMIG Nasal Spray and all medicines out of the reach of children.

General information about the safe and effective use of ZOMIG Nasal Spray.

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

This leaflet summarizes the most important information about ZOMIG Nasal Spray. If you would like more information, talk to your doctor. You can ask your pharmacist or doctor for information about ZOMIG Nasal Spray that is written for health professionals.

For more information go to www.ZOMIG.com or call 1-877-994-6729.

What are the Ingredients in ZOMIG Nasal Spray?

**Active ingredient:** zolmitriptan

**Inactive ingredients:** anhydrous citric acid, dibasic sodium phosphate, and purified water
Instructions for Use
ZOMIG® (Zo-mig)
zolmitriptan
Nasal Spray

Important: For use in your nose only. Do not spray in your eyes.

Note: There is only 1 dose in the nasal sprayer. Do not try to prime the nasal sprayer or you will lose the dose. Do not press the plunger until you have put the tip into your nostril or you will lose the dose.

Steps for using ZOMIG Nasal Spray

Step 1. Remove the ZOMIG Nasal Spray unit from the single use package it comes in. Do not remove the unit until you are ready to use it. The unit contains only 1 spray.

Step 2. Blow your nose gently to clear your nasal passages before use.

Step 3. Remove the protective cap (See Figure A).

Step 4. Keeping your head in an upright position, gently close 1 nostril with your index finger and breathe out gently through your mouth. (See Figure B). Either nostril can be used.

Step 5. With your other hand, hold the container with your thumb supporting the container at the bottom, and your index and middle fingers on each side of the nozzle. (See Figure C).

Insert the tip of the sprayer device into your open nostril as far as feels comfortable and tilt your head slightly (See Figure D).

Do not press the plunger yet.

Step 6. Breathe in gently through your nose and at the same time press the plunger firmly with your thumb to release your dose of ZOMIG Nasal Spray (See Figure D).

The plunger may feel stiff and you may hear a click. Keep your head slightly tilted back and remove the tip from your nose. Breathe gently through your mouth for 5 to 10 seconds. You may feel liquid in your nose or the back of your throat. This is normal.

Step 7. Dispose the ZOMIG Nasal Spray device after completing the full dose or as soon as it becomes outdated or no longer needed. Dispose of properly. Keep out of reach of children. Do not reuse.

This Patient Information and Instructions for Use have been approved by the U.S. Food and Drug Administration.

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