## SYMBRAVO- meloxicam, rizatriptan tablet Axsome Therapeutics, Inc.

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#### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use SYMBRAVO safely and effectively. See full prescribing information for SYMBRAVO. SYMBRAVO (meloxicam and rizatriptan) tablets, for oral use Initial U.S. Approval: 2025

## WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS

See full prescribing information for complete boxed warning.

- Non-steroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular thrombotic events, including myocardial infarction, and stroke, which can be fatal. This risk may occur early in treatment and may increase with duration of use (5.1).
- SYMBRAVO is contraindicated in the setting of coronary artery bypass graft (CABG) surgery (4, 5.1).
- NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events
  including bleeding, ulceration, and perforation of the stomach or intestines, which
  can be fatal. These events can occur at any time during use and without warning
  symptoms. Elderly patients and patients with a prior history of peptic ulcer disease
  and/or GI bleeding are at greater risk for serious GI events (5.2).

#### ----- INDICATIONS AND USAGE

SYMBRAVO is a combination of meloxicam (an NSAID) and rizatriptan (a serotonin (5-HT) 1B/1D receptor agonist (triptan)), indicated for the acute treatment of migraine with or without aura in adults (1). Limitations of Use

- SYMBRAVO should only be used where a clear diagnosis of migraine has been established (1).
- SYMBRAVO is not indicated for the preventive treatment of migraine (1).
- SYMBRAVO is not indicated for the treatment of cluster headache (1).

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

- The recommended dose of SYMBRAVO is one tablet by mouth as needed (2.1).
- The maximum daily dose is 20 mg meloxicam and 10 mg rizatriptan (1 tablet) (2.1).

## ..... DOSAGE FORMS AND STRENGTHS ......

Tablets: 20 mg meloxicam and 10 mg rizatriptan (3)

#### ------CONTRAINDICATIONS ------

- Ischemic coronary artery disease or other significant underlying cardiovascular disease (4)
- Coronary artery vasospasm (4)
- In the setting of CABG surgery (4)
- History of stroke or transient ischemic attack (4)
- Hemiplegic or basilar migraine (4)
- Peripheral vascular disease (4)
- Ischemic bowel disease (4)
- Uncontrolled hypertension (4)
- Concomitant use of propranolol (4)
- Recent (within 24 hours) use of an ergotamine-containing medication, ergot-type medication (such as dihydroergotamine or methysergide), another 5-HT<sub>1</sub> agonist (e.g., another triptan) (4)
- Concurrent administration or recent discontinuation (i.e., within the past 2 weeks) of a MAO-A inhibitor
   (4)
- Known hypersensitivity to SYMBRAVO, meloxicam, rizatriptan, NSAIDs, triptans, or any of the excipients in SYMBRAVO (4)
- · History of asthma, urticaria, or other allergic-type reactions after taking aspirin or other NSAIDs (4)
- Moderate to severe renal insufficiency in patients who are at risk for renal failure due to volume depletion or who are on dialysis (4)

## ------WARNINGS AND PRECAUTIONS ------

- <u>Cardiovascular Thrombotic Events</u>, <u>Myocardial Ischemia</u>, <u>Myocardial Infarction</u>, <u>and Prinzmetal's Angina</u>:
   Perform cardiac evaluation in patients with multiple cardiovascular risk factors (5.1).
- Arrhythmias: Discontinue dosing if arrhythmia occurs (5.3).
- <u>Cerebral Hemorrhage, Subarachnoid Hemorrhage, and Stroke:</u> Discontinue dosing if occurs (5.4).
- Anaphylactic Reactions: Seek emergency help if an anaphylactic reaction occurs (5.5).
- <u>Chest/Throat/Neck/Jaw Pain, Tightness, Pressure, or Heaviness:</u> Generally not associated with myocardial ischemia; evaluate patients at high risk (5.6).
- Gastrointestinal Ischemic Events, Peripheral Vasospastic Reactions: Discontinue dosing if occurs (5.7).
- <u>Hepatotoxicity:</u> Inform patients of warning signs and symptoms of hepatotoxicity. Discontinue if abnormal liver tests persist or worsen or if clinical signs and symptoms of liver disease develop (5.8).
- <u>Hypertension</u>: Patients taking some antihypertensive medications may have impaired response to these therapies when taking NSAIDs. Monitor blood pressure (5.9, 7.1).
- <u>Heart Failure and Edema</u>: Avoid use of SYMBRAVO in patients with severe heart failure unless benefits are expected to outweigh risk of worsening heart failure (5.10).
- <u>Renal Toxicity and Hyperkalemia:</u> Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or hypovolemia. Use is not recommended in patients with moderate to severe renal insufficiency; avoid the use in patients with advanced renal disease unless the benefits are expected to outweigh the risk of worsening renal function (4, 5.11).
- <u>Serious Skin Reactions</u>: Discontinue SYMBRAVO at first appearance of skin rash or other signs of hypersensitivity (5.12).
- <u>Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)</u>: Discontinue SYMBRAVO and evaluate clinically (5.13).
- <u>Fetal Toxicity:</u> Limit use of NSAIDs, including SYMBRAVO, between about 20 to 30 weeks in pregnancy due to the risk of oligohydramnios/fetal renal dysfunction. Avoid use of NSAIDs in women at about 30

weeks gestation and later in pregnancy due to the risks of oligohydramnios/fetal renal dysfunction and premature closure of the fetal ductus arteriosus (5.14, 8.1).

- <u>Hematologic Toxicity:</u> Monitor hemoglobin or hematocrit in patients with any signs or symptoms of anemia (5.15, 7.1).
- Exacerbation of Asthma Related to Aspirin Sensitivity: SYMBRAVO is contraindicated in patients with aspirin-sensitive asthma. Monitor patients with preexisting asthma (without aspirin sensitivity) (5.16).
- Medication Overuse Headache: Detoxification may be necessary (5.17).
- Serotonin Syndrome: Discontinue dosing if occurs (5.18).

#### ----- ADVERSE REACTIONS

Most common adverse reactions (≥1% and greater than placebo) are dizziness and somnolence (6.1). To report SUSPECTED ADVERSE REACTIONS, contact Axsome Therapeutics at 1-800-484-1672 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

#### ----- DRUG INTERACTIONS -----

- <u>Drugs that Interfere with Hemostasis (e.g., warfarin, aspirin, SSRIs/SNRIs):</u> Monitor patients for bleeding who are concomitantly taking SYMBRAVO with drugs that interfere with hemostasis. Concomitant use of SYMBRAVO and analgesic doses of aspirin is not generally recommended (7.1).
- <u>ACE Inhibitors, ARBs, or Beta-Blockers:</u> Concomitant use with SYMBRAVO may diminish the antihypertensive effect of these drugs. Monitor blood pressure (7.1).
- <u>ACE Inhibitors and ARBs:</u> Concomitant use with SYMBRAVO in elderly, volume-depleted, or those with renal impairment may result in deterioration of renal function. In such high-risk patients, monitor for signs of worsening renal function (7.1).
- <u>Diuretics:</u> NSAIDs can reduce natriuretic effect of furosemide and thiazide diuretics. Monitor patients to assure diuretic efficacy including antihypertensive effects (7.1).
- Lithium: Monitor for increases in lithium plasma levels (7.1)
- Methotrexate: Monitor for increases methotrexate plasma levels. (7.1).

#### .....USE IN SPECIFIC POPULATIONS.....

• Infertility: NSAIDs are associated with reversible infertility. Consider withdrawal of SYMBRAVO in women who have difficulties conceiving (8.3).

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

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#### **FULL PRESCRIBING INFORMATION**

## WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS

#### **Cardiovascular Risk**

- Non-steroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular thrombotic events, including myocardial infarction and stroke, which can be fatal. This risk may occur early in treatment and may increase with duration of use [see Warnings & Precautions (5.1)].
- SYMBRAVO is contraindicated in the setting of coronary artery bypass graft (CABG) surgery [see Contraindications (4), Warnings & Precautions (5.1)].

#### **Gastrointestinal Risk**

NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration, and perforation of the stomach or intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients and patients with a prior history of peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events [see Warnings & Precautions (5.2)].

## 1 INDICATIONS AND USAGE

SYMBRAVO is indicated for the acute treatment of migraine with or without aura in adults.

## Limitations of Use

- SYMBRAVO 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 SYMBRAVO, the diagnosis of migraine should be reconsidered before SYMBRAVO is administered to treat any subsequent attacks.
- SYMBRAVO is not indicated for the preventive treatment of migraine attacks.
- SYMBRAVO is not indicated for the treatment of cluster headache.

## **2 DOSAGE AND ADMINISTRATION**

## 2.1 Recommended Dose

The recommended dose of SYMBRAVO is one tablet (containing 20 mg meloxicam and 10 mg rizatriptan) by mouth, as needed for the acute treatment of migraine. The maximum daily dose should not exceed one tablet. The safety and effectiveness of a second dose for the same migraine attack have not been established. The safety of treating, on average, more than 7 headaches in a 30-day period has not been

established.

Use for the shortest duration consistent with individual patient treatment goals [see Warnings and Precautions (5)].

#### 2.2 Administration

Swallow SYMBRAVO tablets whole. Do not crush, divide, or chew the tablets. SYMBRAVO can be taken with or without food.

## 2.3 Not Substitutable with Other Formulations of Meloxicam and of Rizatriptan

SYMBRAVO tablets have not shown equivalent systemic exposures to other formulations of oral meloxicam and of oral rizatriptan. Therefore, SYMBRAVO tablets are not substitutable with other formulations of oral meloxicam or oral rizatriptan products, even if the milligram strengths are the same. Do not substitute SYMBRAVO with similar dose strengths of other meloxicam or rizatriptan products [see Clinical Pharmacology (12.3)].

#### **3 DOSAGE FORMS AND STRENGTHS**

Tablets: 20 mg meloxicam and 10 mg rizatriptan, white and modified capsule-shaped, debossed with "MXRZ" on one side and "20/10" on the other.

#### **4 CONTRAINDICATIONS**

SYMBRAVO is contraindicated in patients with:

- Ischemic coronary artery disease (angina pectoris, history of myocardial infarction, or documented silent ischemia), or other significant underlying cardiovascular disease [see Warnings & Precautions (5.1)].
- Coronary artery vasospasm including Prinzmetal's angina [see Warnings & Precautions (5.1)].
- In the setting of coronary artery bypass graft (CABG) surgery [see Warnings & Precautions (5.1)].
- History of stroke or transient ischemic attack (TIA) [see Warnings & Precautions (5.4)].
- Hemiplegic or basilar migraine.
- Peripheral vascular disease (PVD) [see Warnings & Precautions (5.7)].
- Ischemic bowel disease [see Warnings & Precautions (5.7)].
- Uncontrolled hypertension [see Warnings & Precautions (5.9)].
- Concomitant use of propranolol [see Drug Interactions (7.1)]
- Recent use (i.e., within 24 hours) of an ergotamine-containing medication, ergot-type medication (such as dihydroergotamine or methysergide), or another 5-HT1 agonist (e.g., another triptan) [see Drug Interactions (7.1)].
- Concurrent administration or recent discontinuation (i.e., within 2 weeks) of a MAO-A inhibitor [see Drug Interactions (7.1), Clinical Pharmacology (12.3)].
- Known hypersensitivity (e.g., anaphylactic reactions and angioedema seen) to SYMBRAVO, meloxicam, rizatriptan, NSAIDs or any of the excipients in SYMBRAVO [see Warnings & Precautions (5.5), Adverse Reactions (6.2)].
- History of asthma, urticaria, or other allergic-type reactions after taking aspirin or other NSAIDs. Severe, sometimes fatal anaphylactic-like reactions to NSAIDs have been reported in such patients [see Warnings & Precautions (5.16)].
- Moderate to severe renal insufficiency in patients who are at risk for renal failure due to volume depletion or who are on dialysis [see Warnings & Precautions (5.11)].

#### **5 WARNINGS AND PRECAUTIONS**

## 5.1 Cardiovascular Thrombotic Events and Myocardial Infarction

Cardiovascular Thrombotic Events with NSAIDS

Clinical trials of several COX-2 selective and nonselective NSAIDs of up to three years duration have shown an increased risk of serious cardiovascular (CV) thrombotic events, including myocardial infarction (MI) and stroke, which can be fatal. Based on available data, it is unclear that the risk for CV thrombotic events is similar for all NSAIDs. The relative increase in serious CV thrombotic events over baseline conferred by NSAID use appears to be similar in those with and without known CV disease or risk factors for CV disease. However, patients with known CV disease or risk factors had a higher absolute incidence of excess serious CV thrombotic events, due to their increased

baseline rate. Some observational studies found that this increased risk of serious CV thrombotic events began as early as the first weeks of treatment. The increase in CV thrombotic risk has been observed most consistently at higher doses.

To minimize the potential risk for an adverse CV event in NSAID-treated patients, use the lowest effective dose for the shortest duration possible. Physicians and patients should remain alert for the development of such events, throughout the entire treatment course, even in the absence of previous CV symptoms. Patients should be informed about the symptoms of serious CV events and the steps to take if they occur.

There is no consistent evidence that concurrent use of aspirin mitigates the increased risk of serious CV thrombotic events associated with NSAID use. The concurrent use of aspirin and an NSAID, such as meloxicam, increases the risk of serious gastrointestinal (GI) events [see Warnings & Precautions (5.2)].

Status Post Coronary Artery Bypass Graft (CABG) Surgery

Two large, controlled clinical trials of a COX-2 selective NSAID for the treatment of pain in the first 10-14 days following CABG surgery found an increased incidence of MI and stroke. NSAIDs are contraindicated in the setting of CABG [see Contraindications (4)].

## Post-MI Patients

Observational studies conducted in the Danish National Registry have demonstrated that patients treated with NSAIDs in the post-MI period were at increased risk of reinfarction, CV-related death, and all-cause mortality beginning in the first week of treatment. In this same cohort, the incidence of death in the first year post-MI was 20 per 100 person years in NSAID-treated patients compared to 12 per 100 person years in non-NSAID exposed patients. Although the absolute rate of death declined somewhat after the first year post-MI, the increased relative risk of death in NSAID users persisted over at least the next four years of follow-up.

Myocardial Ischemia, Myocardial Infarction, and Prinzmetal's Angina with Rizatriptan

SYMBRAVO should not be given to patients with ischemic or vasospastic coronary artery disease. There have been rare reports of serious cardiac adverse reactions, including acute myocardial infarction, occurring within a few hours following administration of rizatriptan. Some of these reactions occurred in patients without known coronary artery disease (CAD).  $5-HT_1$  agonists, including SYMBRAVO may cause coronary artery vasospasm (Prinzmetal's Angina), even in patients without a history of CAD [see Contraindications (4)].

Triptan-naïve patients who have multiple cardiovascular risk factors (e.g., increased age, diabetes, hypertension, smoking, obesity, strong family history of CAD) should have a cardiovascular evaluation prior to receiving SYMBRAVO. If there is evidence of CAD or coronary artery vasospasm, SYMBRAVO should not be administered [see Contraindications (4)]. For patients who have a negative cardiovascular evaluation, consideration should be given to administration of the first dose of SYMBRAVO in a medically-supervised setting and performing an electrocardiogram (ECG) immediately following SYMBRAVO administration. Periodic cardiovascular evaluation should be considered in intermittent long-term users of SYMBRAVO who have cardiovascular risk factors.

Avoid the use of SYMBRAVO in patients with a recent MI unless the benefits are expected to outweigh the risk of recurrent CV thrombotic events. If SYMBRAVO is used in patients with a recent MI, monitor patients for signs of cardiac ischemia.

#### 5.2 Gastrointestinal Bleeding, Ulceration, and Perforation

NSAIDs, including meloxicam, a component of SYMBRAVO, can cause serious GI adverse events including inflammation, bleeding, ulceration, and perforation of the esophagus, stomach, small intestine, or large intestine, which can be fatal. These serious adverse events can occur at any time, with or without warning symptoms, in patients treated with meloxicam. Only 1 in 5 patients who develop a serious upper GI adverse event on NSAID therapy is symptomatic. Upper GI ulcers, gross bleeding, or perforation caused by NSAIDs occurred in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. However, even short-term NSAID therapy is not without risk.

## Risk Factors for GI Bleeding, Ulceration, and Perforation

Patients with a prior history of peptic ulcer disease and/or GI bleeding who used NSAIDs had a greater than 10-fold increased risk for developing a GI bleed compared to patients without these risk factors. Other factors that increase the risk of GI bleeding in patients treated with NSAIDs include longer duration of NSAID therapy; concomitant use of oral corticosteroids, aspirin, anticoagulants, or selective SSRIs; smoking; use of alcohol; older age; and poor general health status. Most postmarketing reports of fatal GI events

occurred in elderly or debilitated patients. Additionally, patients with advanced liver disease and/or coagulopathy are at increased risk for GI bleeding.

Strategies to Minimize the GI Risks in NSAID-Treated Patients:

- Use the lowest effective dosage for the shortest possible duration.
- Avoid administration of more than one NSAID at a time.
- Avoid use in patients at higher risk unless benefits are expected to outweigh the
  increased risk of bleeding. For such patients, as well as those with active GI bleeding,
  consider alternate therapies other than NSAIDs.
- Remain alert for signs and symptoms of GI ulceration and bleeding during NSAID therapy.
- If a serious GI adverse event is suspected, promptly initiate evaluation and treatment, and discontinue SYMBRAVO until a serious GI adverse event is ruled out.
- In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, monitor patients more closely for evidence of GI bleeding [see Drug Interactions (7.1)].

### 5.3 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  $5\text{-HT}_1$  agonists. Discontinue SYMBRAVO if these disturbances occur.

#### 5.4 Cerebrovascular Events

Cerebral hemorrhage, subarachnoid hemorrhage, and stroke have occurred in patients treated with  $5\text{-HT}_1$  agonists, and some have resulted in fatalities. In a number of cases, it appears possible that the cerebrovascular events were primary, the  $5\text{-HT}_1$  agonist having been administered in the incorrect belief that the symptoms experienced were a consequence of migraine, when they were not. Also, patients with migraine may be at increased risk of certain cerebrovascular events (e.g., stroke, hemorrhage, transient ischemic attack). Discontinue SYMBRAVO if a cerebrovascular event occurs.

Before treating headaches in patients not previously diagnosed with migraine, and in patients with migraine who present with atypical symptoms, care should be taken to exclude other potentially serious neurological conditions. SYMBRAVO is contraindicated in patients with a history of stroke or transient ischemic attack [see Contraindications (4)].

## 5.5 Anaphylactic Reactions

SYMBRAVO can cause anaphylactic reactions. Meloxicam has been associated with anaphylactic reactions in patients with and without known hypersensitivity to meloxicam and in patients with aspirin-sensitive asthma. Hypersensitivity reactions, including angioedema and anaphylaxis, have also occurred in patients receiving rizatriptan. Seek emergency help if an anaphylactic reaction occurs [see Contraindications (4), Warnings and Precautions (5.16)].

## 5.6 Chest, Throat, Neck and/or Jaw Pain/Tightness/Pressure

Sensations of tightness, pain, pressure, and heaviness in the precordium, throat, neck and jaw commonly occur after treatment with SYMBRAVO and are usually non-cardiac in origin. However, if a cardiac origin is suspected, patients should be evaluated. SYMBRAVO is contraindicated in patients with ischemic coronary artery disease and those with Prinzmetal's variant angina [see Contraindications (4)].

#### 5.7 Other Vasospasm Reactions

 $5\text{-HT}_1$  agonists, including SYMBRAVO, 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 non-coronary vasospasm reaction following the use of any  $5\text{-HT}_1$  agonist, the suspected vasospasm reaction should be ruled out before receiving additional SYMBRAVO doses.

Reports of transient and permanent blindness and significant partial vision loss have been reported with the use of 5-HT $_1$  agonists. Since visual disorders may be part of a migraine attack, a causal relationship between these events and the use of 5-HT $_1$  agonists has not been clearly established.

## 5.8 Hepatotoxicity

Elevations of ALT or AST (3- or more times the upper limit of normal [ULN]) have been reported in approximately 1% of NSAID-treated patients in clinical trials. In addition, rare,

sometimes fatal, cases of severe hepatic injury, including fulminant hepatitis, liver necrosis, and hepatic failure have been reported.

Elevations of ALT or AST (less than 3-times ULN) may occur in up to 15% of patients treated with NSAIDs including meloxicam, a component of SYMBRAVO.

Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, diarrhea, pruritus, jaundice, right upper quadrant tenderness, and "flulike" symptoms). If clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), discontinue SYMBRAVO immediately, and perform a clinical evaluation of the patient [see Use in Specific Populations (8.7), Clinical Pharmacology (12.3)].

## 5.9 Hypertension/Increase in Blood Pressure

NSAIDs, including meloxicam, a component of SYMBRAVO, can lead to new onset of hypertension or worsening of pre-existing hypertension, either of which may contribute to the increased incidence of CV events. Patients taking angiotensin converting enzyme (ACE) inhibitors, thiazides or loop diuretics may have impaired response to these therapies when taking NSAIDs [see Drug Interactions (7.1)].

Significant elevation in blood pressure (BP), including hypertensive crisis with acute impairment of organ systems, has been reported on rare occasions in patients with and without a history of hypertension receiving 5-HT<sub>1</sub> agonists, including rizatriptan, a component of SYMBRAVO. In healthy young adult male and female patients who received maximal doses of rizatriptan (10 mg every 2 hours for 3 doses), slight increases in BP (approximately 2-3 mmHg) were observed. SYMBRAVO is contraindicated in patients with uncontrolled hypertension [see Contraindications (4)].

Monitor BP during the initiation of SYMBRAVO treatment and throughout the course of therapy.

#### 5.10 Heart Failure and Edema

The Coxib and traditional NSAID Trialists' Collaboration meta-analysis of randomized controlled trials demonstrated an approximately 2-fold increase in hospitalizations for heart failure in COX-2 selective-treated patients and nonselective NSAID-treated patients compared to placebo-treated patients. In a Danish National Registry study of patients with heart failure, NSAID use increased the risk of MI, hospitalization for heart failure, and death.

Additionally, fluid retention and edema have been observed in some patients treated with NSAIDs. Use of SYMBRAVO may blunt the CV effects of several therapeutic agents used to treat these medical conditions (e.g., diuretics, ACE inhibitors, or angiotensin receptor blockers [ARBs]) [see Drug Interactions (7.1)].

Avoid the use of SYMBRAVO in patients with severe heart failure unless the benefits are expected to outweigh the risk of worsening heart failure. If SYMBRAVO is used in patients with severe heart failure, monitor patients for signs of worsening heart failure.

## 5.11 Renal Toxicity and Hyperkalemia

## **Renal Toxicity**

Long-term administration of NSAIDs has resulted in renal papillary necrosis, renal insufficiency, acute renal failure, and other renal injury.

Renal toxicity has also been seen in patients in whom renal prostaglandins have a compensatory role in the maintenance of renal perfusion. In these patients, administration of an NSAID may cause a dose-dependent reduction in prostaglandin formation and, secondarily, in renal blood flow, which may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those with impaired renal function, dehydration, hypovolemia, heart failure, liver dysfunction, those taking diuretics and ACE inhibitors or ARBs, and the elderly. Discontinuation of NSAID therapy is usually followed by recovery to the pretreatment state.

SYMBRAVO is not recommended in patients with moderate to severe renal insufficiency and is contraindicated in patients with moderate to severe renal insufficiency who are at risk for renal failure due to volume depletion.

No information is available from controlled clinical studies regarding the use of meloxicam in patients with advanced renal disease. The renal effects of SYMBRAVO may hasten the progression of renal dysfunction in patients with pre-existing renal disease.

Correct volume status in dehydrated or hypovolemic patients prior to initiating SYMBRAVO. Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or hypovolemia during use of SYMBRAVO [see Drug Interactions

(7.1)]. Avoid the use of SYMBRAVO in patients with advanced renal disease unless the benefits are expected to outweigh the risk of worsening renal function. If SYMBRAVO is used in patients with advanced renal disease, monitor patients for signs of worsening renal function [see Clinical Pharmacology (12.3)].

## **Hyperkalemia**

Increases in serum potassium concentration, including hyperkalemia, have been reported with use of NSAIDs, even in some patients without renal impairment. In patients with normal renal function, these effects have been attributed to a hyporeninemic-hypoaldosteronism state.

#### 5.12 Serious Skin Reactions

NSAIDs, including SYMBRAVO, can cause serious skin adverse reactions such as exfoliative dermatitis, Stevens-Johnson Syndrome (SJS), and toxic epidermal necrolysis (TEN), which can be fatal. NSAIDs can also cause fixed drug eruption (FDE). FDE may present as a more severe variant known as generalized bullous fixed drug eruption (GBFDE), which can be life-threatening. These serious events may occur without warning. Inform patients about the signs and symptoms of serious skin reactions, and to discontinue the use of SYMBRAVO at the first appearance of skin rash or any other sign of hypersensitivity. SYMBRAVO is contraindicated in patients with previous serious skin reactions to NSAIDs [see Contraindications (4)].

## 5.13 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)

Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) has been reported in patients taking NSAIDs such as SYMBRAVO. Some of these events have been fatal or life-threatening. DRESS typically, although not exclusively, presents with fever, rash, lymphadenopathy, and/or facial swelling. Other clinical manifestations may include hepatitis, nephritis, hematological abnormalities, myocarditis, or myositis. Sometimes symptoms of DRESS may resemble an acute viral infection. Eosinophilia is often present. Because this disorder is variable in its presentation, other organ systems not noted here may be involved. It is important to note that early manifestations of hypersensitivity, such as fever or lymphadenopathy, may be present even though rash is not evident. If such signs or symptoms are present, discontinue SYMBRAVO and evaluate the patient immediately.

## 5.14 Fetal Toxicity

#### <u>Premature Closure of Fetal Ductus Arteriosus</u>

Avoid use of NSAIDs, including SYMBRAVO, in pregnant women at about 30 weeks gestation and later. NSAIDs, including SYMBRAVO, increase the risk of premature closure of the fetal ductus arteriosus at approximately this gestational age.

## Oligohydramnios/Neonatal Renal Impairment

Use of NSAIDs, including SYMBRAVO, at about 20 weeks gestation or later in pregnancy may cause fetal renal dysfunction leading to oligohydramnios and, in some cases, neonatal renal impairment. These adverse outcomes are seen, on average, after days to weeks of treatment, although oligohydramnios has been infrequently reported as soon as 48 hours after NSAID initiation. Oligohydramnios is often, but not always, reversible with treatment discontinuation. Complications of prolonged oligohydramnios may, for example, include limb contractures and delayed lung maturation. In some postmarketing cases of impaired neonatal renal function, invasive procedures such as exchange transfusion or dialysis were required.

If NSAID treatment is necessary between about 20 weeks and 30 weeks gestation, limit SYMBRAVO use to the lowest effective dose and shortest duration possible.

Consider ultrasound monitoring of amniotic fluid if SYMBRAVO treatment extends beyond 48 hours. Discontinue SYMBRAVO if oligohydramnios occurs and follow up according to clinical practice [see Use in Specific Populations (8.1)].

## 5.15 Hematologic Toxicity

Anemia has occurred in NSAID-treated patients. This may be due to occult or gross blood loss, fluid retention, or an incompletely described effect on erythropoiesis. If a patient treated with SYMBRAVO has any signs or symptoms of anemia, monitor hemoglobin or hematocrit.

NSAIDs, including SYMBRAVO, may increase the risk of bleeding events. Co-morbid conditions such as coagulation disorders or concomitant use of warfarin, other anticoagulants, antiplatelet agents (e.g., aspirin), SSRIs and SNRIs may increase this risk. Monitor these patients for signs of bleeding [see Drug Interactions (7.1)].

## 5.16 Exacerbation of Asthma Related to Aspirin Sensitivity

A subpopulation of patients with asthma may have aspirin-sensitive asthma which may include chronic rhinosinusitis complicated by nasal polyps; severe, potentially fatal bronchospasm; and/or intolerance to aspirin and other NSAIDs. Because cross-reactivity between aspirin and other NSAIDs has been reported in such aspirin-sensitive patients, SYMBRAVO is contraindicated in patients with this form of aspirin sensitivity [see Contraindications (4)]. When SYMBRAVO is used in patients with preexisting asthma (without known aspirin sensitivity), monitor patients for changes in the signs and symptoms of asthma.

#### 5.17 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.

## 5.18 Serotonin Syndrome

Serotonin syndrome may occur with triptans, including SYMBRAVO particularly during co-administration with selective serotonin reuptake inhibitors (SSRIs), serotonin norepinephrine reuptake inhibitors (SNRIs), tricyclic antidepressants (TCAs), and MAO inhibitors (MAOIs). 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). The onset of symptoms can occur within minutes to hours of receiving a new or a greater dose of a serotonergic medication. SYMBRAVO treatment should be discontinued if serotonin syndrome is suspected [see Drug Interactions (7.1), Patient Counseling Information (17)].

## 5.19 Masking of Inflammation and Fever

The pharmacological activity of SYMBRAVO in reducing inflammation, and possibly fever, may diminish the utility of diagnostic signs in detecting infections.

## 5.20 Laboratory Monitoring

Because serious GI bleeding, hepatotoxicity, and renal injury can occur without warning symptoms or signs, consider monitoring patients on long-term NSAID treatment with a complete blood count (CBC) and a chemistry profile periodically [see Warnings and Precautions (5.2, 5.8, 5.11]. Discontinue SYMBRAVO if GI bleeding occurs or if abnormal liver or renal tests persist or worsen.

#### **6 ADVERSE REACTIONS**

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

- Cardiovascular Thrombotic Events and Myocardial Infarction [see Warnings and Precautions (5.1)]
- GI Bleeding, Ulceration, and Perforation [see Warnings and Precautions (5.2)]
- Arrhythmias [see Warnings and Precautions (5.3)]
- Cerebrovascular Events [see Warnings and Precautions (5.4)]
- Anaphylactic Reactions [see Warnings and Precautions (5.5)]
- Chest, Throat, Neck and/or Jaw Pain/Tightness/Pressure [see Warnings and Precautions (5.6)]
- Other Vasospasm Reactions [see Warnings and Precautions (5.7)]
- Hepatotoxicity [see Warnings and Precautions (5.8)]
- Hypertension/Increase in Blood Pressure [see Warnings and Precautions (5.9)]
- Heart Failure and Edema [see Warnings and Precautions (5.10)]
- Renal Toxicity and Hyperkalemia [see Warnings and Precautions (5.11)]
- Serious Skin Reactions [see Warnings and Precautions (5.12)]
- Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) [see Warnings and Precautions (5.13)]
- Fetal Toxicity [see Warnings and Precautions (5.14)]
- Hematologic Toxicity [see Warnings and Precautions (5.15)]
- Exacerbation of Asthma Related to Aspirin Sensitivity [see Warnings and Precautions

(5.16)1

- Medication Overuse Headache [see Warnings and Precautions (5.17)]
- Serotonin Syndrome [see Warnings and Precautions (5.18)]

#### 6.1 Clinical Trials Experience

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

In two randomized, double-blind, controlled trials in adults with migraine, a total of 581 patients received a single dose of SYMBRAVO after the onset of a migraine attack (Studies 1 and 2) [see Clinical Studies (14)]. The most common adverse reactions from these two trials after treatment with SYMBRAVO (incidence  $\geq$ 1% and greater than placebo) are provided in Table 1.

Table 1: Incidence (≥1% and Greater than Placebo) of Adverse Reactions after a Single Dose of SYMBRAVO in Adults (Study 1 and Study 2)

	SYMBRAVO N=581 <sup>a</sup>	Rizatriptan 10 mg N=434 <sup>b</sup>	Meloxicam 20 mg N=433 <sup>b</sup>	Placebo N=361 <sup>a</sup>	
	%	%	%	%	
Somnolence	2	2	2	1	
Dizziness	2	2	1	1	

a Study 1 and Study 2 pooled

b Data from Study 1 only; Study 2 did not include arms with each individual component

Long-term safety was assessed in 706 patients dosing intermittently for up to 12 months in an open-label extension trial where patients treated at least 2 migraines per month with SYMBRAVO. Of these 706 patients, 496 patients were exposed to SYMBRAVO for at least 6 months, and 132 were exposed for at least 12 months, all of whom treated at least 2 migraine attacks per month, on average.

### 6.2 Postmarketing Experience

The following adverse reactions have been reported with the individual components of SYMBRAVO, meloxicam and rizatriptan, from postmarketing experience. Because these reactions are reported voluntarily from a population of unknown size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

### **Meloxicam**

Blood and Lymphatic System Disorders: Agranulocytosis

Hepatobiliary Disorders: Jaundice; liver failure

Psychiatric Disorders: Alterations in mood (such as mood elevation)

Renal and Urinary Disorders: Acute urinary retention; interstitial nephritis

Reproductive System and Breast Disorders: Infertility female

Skin and Subcutaneous Tissue Disorders: Anaphylactic reactions including shock; erythema multiforme; exfoliative dermatitis; Stevens-Johnson syndrome; fixed drug eruption (FDE); toxic epidermal necrolysis [see Warnings and Precautions (5.12)]

## <u>Rizatriptan</u>

General: Allergic conditions including anaphylaxis/ anaphylactic reaction, angioedema, wheezing, and toxic epidermal necrolysis [see Contraindications (4)]

Neurological/Psychiatric: Seizure

Special Senses: Dysgeusia

## 7 DRUG INTERACTIONS

## 7.1 Drugs Having Clinically Important Interactions with SYMBRAVO

See Table 2 for clinically significant drug interactions with SYMBRAVO [see Clinical Pharmacology (12.3)].

Table 2: Clinically Important Drug Interactions with SYMBRAVO

Clinical Impact	<ul> <li>Meloxicam and anticoagulants such as warfarin have a synergistic effect on bleeding. The concomitant use of meloxicam and anticoagulants have an increased risk of serious bleeding compared to the use of either drug alone.</li> <li>Serotonin release by platelets plays an important role in hemostasis. Case-control and cohort epidemiological studies showed that concomitant use of drugs that interfere with serotonin reuptake and an NSAID may potentiate the risk of bleeding more than an NSAID alone.</li> </ul>			
Intervention	Monitor patients with concomitant use of SYMBRAVO with anticoagulants (e.g., warfarin), antiplatelet agents (e.g., aspirin), selective serotonin reuptake inhibitors (SSRIs), and serotonin norepinephrine reuptake inhibitors (SNRIs) for signs of bleeding [see Warnings and Precautions (5.15)]. Caution should be used when administering SYMBRAVO with warfarin since patients on warfarin may experience changes in International Normalized Ratio (INR) and an increased risk of bleeding complications when a new medication is introduced.			
Aspirin				
	Controlled clinical studies showed that the concomitant use of NSAIDs and analgesic doses of aspirin does not produce any greater therapeutic effect than the use of NSAIDs alone. In a clinical study, the concomitant use of an NSAID and aspirin was associated with a significantly increased incidence of GI adverse reactions as compared to use of the NSAID alone [see Warnings and Precautions (5.2)].			
Intervention	<ul> <li>Concomitant use of SYMBRAVO and analgesic doses of aspirin is not generally recommended because of the increased risk of bleeding [see Warnings and Precautions (5.15)].</li> <li>In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, monitor patients more closely for evidence of GI bleeding [see Warnings and Precautions (5.2)].</li> <li>Meloxicam in SYMBRAVO is not a substitute for low dose aspirin for cardiovascular protection.</li> </ul>			
SSRIc/SNRI	s and Serotonin Syndrome			
Clinical	Cases of serotonin syndrome have been reported during co-administration			
Impact	of triptans and SSRIs or SNRIs [see Warnings and Precautions (5.18)].			
Intervention	SYMBRAVO treatment should be discontinued if serotonin syndrome is			
ACE Inhibit	suspected. ors, Angiotensin Receptor Blockers, and Beta-Blockers			
Clinical Impact	<ul> <li>NSAIDs may diminish the antihypertensive effect of angiotensin converting enzyme (ACE) inhibitors, angiotensin receptor blockers (ARBs), or beta blockers.</li> <li>In patients who are elderly, volume-depleted (including those on diuretic therapy), or have renal impairment, co-administration of an NSAID with ACE inhibitors or ARBs may result in deterioration of renal function, including possible acute renal failure. These effects are usually reversible.</li> <li>Propranolol has been shown to increase the plasma AUC of rizatriptan.</li> </ul>			
Intervention	<ul> <li>During concomitant use of SYMBRAVO and ACE-inhibitors, ARBs, or beta blockers, monitor blood pressure to ensure that the desired blood pressure is obtained.</li> <li>During concomitant use of SYMBRAVO and ACE-inhibitors or ARBs in patients who are elderly, volume-depleted, or have impaired renal function, monitor for signs of worsening renal function [see Warnings and Precautions (5.11)].</li> <li>When these drugs are administered concomitantly, patients should be adequately hydrated. Assess renal function at the beginning of the concomitant treatment and periodically thereafter.</li> <li>The concomitant use of SYMBRAVO with propranolol is contraindicated.</li> </ul>			
Diuretics				
Clinical Impact	Clinical studies, as well as postmarketing observations, showed that NSAIDs reduced the natriuretic effect of loop diuretics (e.g., furosemide) and thiazide diuretics in some patients. This effect has been attributed to the NSAID inhibition of renal prostaglandin synthesis. However, studies with furosemide agents and meloxicam have not demonstrated a reduction in natriuretic effect. Furosemide single and multiple dose pharmacodynamics and pharmacokinetics are not affected by multiple			

1	doses of meloxicam.			
Intervention	During concomitant use of SYMBRAVO with diuretics, observe patients for tervention signs of worsening renal function, in addition to assuring diuretic efficacy including antihypertensive effects [see Warnings and Precautions (5.11)].			
Lithium	, , , , , , , , , , , , , , , , , , , ,			
Clinical Impact	NSAIDs have produced elevations in plasma lithium levels and reductions ir renal lithium clearance. This effect has been attributed to NSAID inhibition of renal prostaglandin synthesis.			
Intervention	During concomitant use of SYMBRAVO and lithium, monitor patients for signs of lithium toxicity.			
Methotrexa				
Clinical Impact	Concomitant use of NSAIDs and methotrexate may increase the risk for methotrexate toxicity (e.g., neutropenia, thrombocytopenia, renal dysfunction).			
Intervention	patients for methotrexate toxicity.			
Cyclosporin				
Clinical Impact	Concomitant use of meloxicam and cyclosporine may increase cyclosporine's nephrotoxicity.			
Intervention	During concomitant use of SYMBRAVO and cyclosporine, monitor patients for signs of worsening renal function.			
NSAIDs and	Salicylates			
Clinical Impact	Concomitant use of meloxicam with other NSAIDs or salicylates (e.g., diflunisal, salsalate) increases the risk of GI toxicity, with little or no increase in efficacy [see Warnings and Precautions (5.2)].			
Intervention	The concomitant use of SYMBRAVO with other NSAIDs or salicylates is not recommended.			
<b>Pemetrexe</b>				
Clinical Impact	Concomitant use of meloxicam and pemetrexed may increase the risk of pemetrexed-associated myelosuppression, renal, and GI toxicity (see the pemetrexed prescribing information).			
Intervention	renal impairment whose creatinine clearance ranges from 45 to 79 mL/min, monitor for myelosuppression, renal and GI toxicity. Patients taking SYMBRAVO should interrupt dosing for at least five days before, the day of, and two days following pemetrexed administration. In patients with creatinine clearance below 45 mL/min, the concomitant administration of SYMBRAVO with pemetrexed is not recommended.			
CYP2C9 Inh	nibitors			
Clinical Impact	In vitro studies indicate that CYP2C9 (cytochrome P450 metabolizing enzyme) plays an important role in the metabolic pathway of meloxicam with a minor contribution of the CYP3A4 isozyme. Thus, concomitant usage of CYP2C9 inhibitors (e.g., amiodarone, fluconazole) may lead to abnormally high plasma levels of meloxicam due to reduced metabolic clearance [see Use in Specific Populations (8.8), Clinical Pharmacology (12.3, 12.5)].			
Intervention	Use of SYMBRAVO in patients undergoing treatment with CYP2C9 inhibitors is not recommended.			
	aining Drugs			
Clinical Impact	Ergot-containing drugs have been reported to cause prolonged vasospastic reactions.			
Intervention	Because these effects may be additive with rizatriptan, use of ergotamine-containing or ergot-type medications (e.g., dihydroergotamine or methysergide) and SYMBRAVO within 24 hours is contraindicated [see Contraindications (4)].			
5-HT <sub>1</sub> Agon	ists			
Clinical Impact	Vasospastic effects may be additive with co-administration within 24 hours of another 5-HT1 agonists.			
Intervention	Use of SYMBRAVO within 24 hours of another $5HT_1$ agonist is contraindicated [see Contraindications (4)].			
	Oxidase Inhibitors			
Clinical Impact	MAO-A inhibitors increase the systemic exposure of rizatriptan and its metabolite.			
Intervention	SYMBRAVO is contraindicated in patients taking MAO-A inhibitors and non-selective MAO inhibitors [see Contraindications (4)].			

#### 8.1 Pregnancy

SYMBRAVO has not been studied in pregnant women. However, there are data pertaining to the use of the individual components, meloxicam and rizatriptan during pregnancy. These data are described below.

#### Risk Summary

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively. The reported rate of major birth defects among infants born to women with migraine range from 2.2% to 2.9% and the reported rate of miscarriage was 17%, which are similar to rates reported in women without migraine.

#### Meloxicam

Use of NSAIDs, including SYMBRAVO, can cause premature closure of the fetal ductus arteriosus and fetal renal dysfunction leading to oligohydramnios and, in some cases, neonatal renal impairment. Because of these risks, limit dose and duration of SYMBRAVO use between about 20 and 30 weeks of gestation, and avoid SYMBRAVO use at about 30 weeks of gestation and later in pregnancy [see Clinical Considerations, Data].

#### Premature Closure of Fetal Ductus Arteriosus

Use of NSAIDs, including SYMBRAVO, at about 30 weeks gestation or later in pregnancy increases the risk of premature closure of the fetal ductus arteriosus.

#### Oligohydramnios/Neonatal Renal Impairment

Use of NSAIDs at about 20 weeks gestation or later in pregnancy has been associated with cases of fetal renal dysfunction leading to oligohydramnios, and in some cases, neonatal renal impairment.

Data from observational studies regarding other potential embryofetal risks of NSAID use in women in the first or second trimesters of pregnancy are inconclusive.

In animal reproduction studies, embryofetal death was observed in rats and rabbits treated during the period of organogenesis with meloxicam at oral doses equivalent to 0.5 and 4.9 times, respectively, the maximum recommended human dose (MRHD) of 20 mg of meloxicam, based on body surface area (mg/m²). Increased incidence of septal heart defects was observed in rabbits treated throughout embryogenesis with meloxicam at an oral dose equivalent to 59 times the MRHD of 20 mg of meloxicam on a mg/m² basis. In pre- and post-natal reproduction studies, there was an increased incidence of dystocia, delayed parturition, and decreased offspring survival at 0.06 times the MRHD of 20 mg of meloxicam on a mg/m² basis. No teratogenic effects were observed in rats and rabbits treated with meloxicam during organogenesis at an oral dose equivalent to 2 and 20 times, respectively, the MRHD of 20 mg of meloxicam on a mg/m² basis [see Data].

Based on animal data, prostaglandins have been shown to have an important role in endometrial vascular permeability, blastocyst implantation, and decidualization. In animal studies, administration of prostaglandin synthesis inhibitors, such as meloxicam, resulted in increased pre- and post-implantation loss. Prostaglandins also have been shown to have an important role in fetal kidney development. In published animal studies, prostaglandin synthesis inhibitors have been reported to impair kidney development when administered at clinically relevant doses.

## <u>Rizatriptan</u>

Available human data on the use of rizatriptan in pregnant women are not sufficient to draw conclusions about drug-associated risk for major birth defects and miscarriage.

In animal studies, developmental toxicity was observed following oral administration of rizatriptan during pregnancy (decreased fetal body weight in rats) or throughout pregnancy and lactation (increased mortality, decreased body weight, and neurobehavioral impairment in rat offspring) at doses greater than the MRHD of 10 mg rizatriptan on a mg/m² basis [see Animal Data].

## Clinical Considerations

## Disease-Associated Maternal and/or Embryo/Fetal Risk

In women with migraine, there is an increased risk of adverse perinatal outcomes in the mother, including pre-eclampsia and gestational hypertension.

## Fetal/Neonatal Adverse Reactions

Premature Closure of Fetal Ductus Arteriosus:

Avoid use of NSAIDs in women at about 30 weeks gestation and later in pregnancy, because NSAIDs, including SYMBRAVO, can cause premature closure of the fetal ductus arteriosus [see Data].

## Oligohydramnios/Neonatal Renal Impairment

If an NSAID is necessary at about 20 weeks gestation or later in pregnancy, limit the use to the lowest effective dose and shortest duration possible. If SYMBRAVO treatment extends beyond 48 hours, consider monitoring with ultrasound for oligohydramnios. If oligohydramnios occurs, discontinue SYMBRAVO and follow up according to clinical practice [see Data].

#### Labor or Delivery

There are no studies on the effects of SYMBRAVO during labor or delivery. In animal studies, NSAIDs, including meloxicam, inhibit prostaglandin synthesis, cause delayed parturition, and increase the incidence of stillbirth.

#### **Data**

## Human Data for Meloxicam

#### Premature Closure of Fetal Ductus Arteriosus:

Published literature reports that the use of NSAIDs at about 30 weeks of gestation and later in pregnancy may cause premature closure of the fetal ductus arteriosus.

## Oligohydramnios/Neonatal Renal Impairment:

Published studies and postmarketing reports describe maternal NSAID use at about 20 weeks gestation or later in pregnancy associated with fetal renal dysfunction leading to oligohydramnios, and in some cases, neonatal renal impairment. These adverse outcomes are seen, on average, after days to weeks of treatment, although oligohydramnios has been infrequently reported as soon as 48 hours after NSAID initiation. In many cases, but not all, the decrease in amniotic fluid was transient and reversible with cessation of the drug. There have been a limited number of case reports of maternal NSAID use and neonatal renal dysfunction without oligohydramnios, some of which were irreversible. Some cases of neonatal renal dysfunction required treatment with invasive procedures, such as exchange transfusion or dialysis.

Methodological limitations of these postmarketing studies and reports include lack of a control group; limited information regarding dose, duration, and timing of drug exposure; and concomitant use of other medications. These limitations preclude establishing a reliable estimate of the risk of adverse fetal and neonatal outcomes with maternal NSAID use.

Because the published safety data on neonatal outcomes involved mostly preterm infants, the generalizability of certain reported risks to the full-term infant exposed to NSAIDs through maternal use is uncertain.

## Human Data for Rizatriptan

In a pregnancy registry for rizatriptan users, no pattern of congenital anomalies or other adverse birth outcomes was identified over the period of 1998 to 2018. However, the lack of identification of any pattern should be viewed with caution, as the number of prospective reports with outcome information was low and did not provide sufficient power to detect an increased risk of individual birth defects associated with the use of rizatriptan. Additionally, there was significant loss to follow-up in the prospective pregnancy reports, further complicating this assessment of an association between rizatriptan and any pattern of congenital anomalies or other adverse birth outcomes.

In a study using data from the Swedish Medical Birth Register, live births to women who reported using triptans or ergots during pregnancy were compared with those of women who did not. Of the 157 births with first-trimester exposure to rizatriptan, 7 infants were born with malformations (relative risk 1.01 [95% CI: 0.40 to 2.08]). A study using linked data from the Medical Birth Registry of Norway to the Norwegian Prescription Database compared pregnancy outcomes in women who redeemed prescriptions for triptans during pregnancy, as well as a migraine disease comparison group who redeemed prescriptions for triptans before pregnancy only, compared with a population control group. Of the 310 women who redeemed prescriptions for rizatriptan during the first trimester, 10 had infants with major congenital malformations (OR 1.03 [95% CI: 0.55 to 1.93]), while for the 271 women who redeemed prescriptions for rizatriptan before, but not during, pregnancy, 12 had infants with major congenital malformations (OR 1.48 [95% CI: 0.83 to 2.64]), each compared with the population comparison group.

## Animal Data

Animal reproduction studies have not been conducted for SYMBRAVO.

#### Meloxicam

Meloxicam was not teratogenic when administered to pregnant rats during fetal organogenesis at oral doses up to 4 mg/kg/day (2-fold greater than the MRHD of 20 mg of meloxicam on a mg/m² basis). Administration of meloxicam to pregnant rabbits throughout embryogenesis produced an increased incidence of septal defects of the heart at an oral dose of 60 mg/kg/day (59-fold greater than the MRHD of 20 mg of meloxicam on a mg/m² basis). The no effect level was 20 mg/kg/day (20-fold greater than the MRHD of 20 mg of meloxicam based on BSA conversion). In rats and rabbits, embryolethality occurred at oral meloxicam doses of 1 mg/kg/day and 5 mg/kg/day, respectively (0.5 and 4.9-fold greater, respectively, than the MRHD of 20 mg of meloxicam on a mg/m² basis) when administered throughout organogenesis.

Oral administration of meloxicam to pregnant rats during late gestation through lactation increased the incidence of dystocia, delayed parturition, and decreased offspring survival at meloxicam doses of 0.125 mg/kg/day or greater (0.06 times the MRHD of 20 mg of meloxicam based on BSA comparison).

#### Rizatriptan

When rizatriptan (0, 2, 10, or 100 mg/kg/day) was administered orally to pregnant rats throughout organogenesis, a decrease in fetal body weight was observed at the highest doses tested. The no-effect dose for adverse effects on embryofetal development was 10 mg/kg/day (10 times the MRHD of 10 mg of rizatriptan on a mg/m² basis). When rizatriptan (0, 5, 10, or 50 mg/kg/day) was administered orally to pregnant rabbits throughout organogenesis, no adverse fetal effects were observed. The highest dose tested of 50 mg/kg/day was 97 times the MRHD of 10 mg of rizatriptan on a mg/m² basis. Placental transfer of drug to the fetus was demonstrated in both species.

Oral administration of rizatriptan (0, 2, 10, or 100 mg/kg/day) to female rats prior to and during mating and continuing throughout gestation and lactation resulted in reduced body weight in offspring from birth and throughout lactation at all but the lowest dose tested (2 mg/kg/day). The no-effect dose (2 mg/kg/day) for adverse effects on postnatal development was 2 times the MRHD of 10 mg rizatriptan on a mg/m² basis.

Oral administration of rizatriptan (0, 5, 100, or 250 mg/kg/day) throughout organogenesis and lactation resulted in neonatal mortality, reduced body weight (which persisted into adulthood), and impaired neurobehavioral function in offspring at all but the lowest dose tested. The no-effect dose for adverse effects on postnatal development (5 mg/kg/day) was 5 times the MRHD of 10 mg rizatriptan on a mg/m² basis.

#### 8.2 Lactation

## Risk Summary

## Meloxicam

There are no human data available on whether meloxicam is present in human milk, or on the effects on breastfed infants, or on milk production.

### Rizatriptan

There are no adequate data on the presence of rizatriptan or any active metabolites in human milk, or on the effects of rizatriptan on the breastfed infant, or on milk production. Rizatriptan was excreted in rat milk with levels in milk approximately 6 times those in maternal plasma.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for SYMBRAVO and any potential adverse effects on the breastfed infant from the SYMBRAVO or from the underlying maternal condition.

#### Data

#### Animal Data for Meloxicam

Meloxicam was present in the milk of lactating rats at concentrations higher than those in plasma.

## Animal Data for Rizatriptan

Following oral administration of rizatriptan to lactating rats at a dose of 100 mg/kg/day, drug concentrations of rizatriptan in milk samples exceeded maternal plasma drug concentrations by approximately 6-fold.

#### 8.3 Females and Males of Reproductive Potential

## <u>Infertility</u>

#### Females

Based on the mechanism of action, the use of prostaglandin-mediated NSAIDs, including SYMBRAVO, may delay or prevent rupture of ovarian follicles, which has been associated with reversible infertility in some women. Published animal studies have shown that administration of prostaglandin synthesis inhibitors has the potential to disrupt prostaglandin-mediated follicular rupture required for ovulation. Small studies in women treated with NSAIDs have also shown a reversible delay in ovulation. Consider withdrawal of SYMBRAVO in women who have difficulties conceiving or who are undergoing investigation of infertility.

#### Males

Meloxicam in SYMBRAVO may compromise fertility in males of reproductive potential. In a published study, oral administration of meloxicam to male rats for 35 days resulted in decreased sperm count and motility and histopathological evidence of testicular degeneration at 0.5 times the MRHD on a  $mg/m^2$  basis [see Nonclinical Toxicology (13.1)]. It is not known if these effects on fertility are reversible. The clinical relevance of these findings is unknown.

## 8.4 Pediatric Use

Safety and effectiveness of SYMBRAVO in pediatric patients have not been established.

#### 8.5 Geriatric Use

Clinical studies of SYMBRAVO did not include subjects aged 65 and over to determine whether they respond differently from younger subjects.

Elderly patients, compared to younger patients, are at greater risk for NSAID-associated serious cardiovascular, gastrointestinal, hepatic, and/or renal adverse reactions. If the anticipated benefit for the elderly patient outweighs these potential risks, treat for the fewest number of days per month, as needed, and monitor patients for adverse effects [see Warnings and Precautions (5.1, 5.2, 5.8, 5.11)].

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 SYMBRAVO [see Warnings and Precautions (5.1, 5.9)].

## 8.6 Renal Impairment

The use of SYMBRAVO, because of the meloxicam component, is contraindicated for patients with moderate to severe renal impairment who are at risk for renal failure due to volume depletion or for patients on hemodialysis, and is not recommended in patients with moderate to severe renal impairment [see Contraindications (4), Warnings and Precautions (5.11), Clinical Pharmacology (12.3)].

SYMBRAVO has not been studied in patients with renal impairment. The individual components, meloxicam and rizatriptan, have been studied and the results are described below.

## <u>Meloxicam</u>

Pharmacokinetics of meloxicam in elderly subjects with mild renal impairment is similar to healthy young subjects. Patients with moderate or severe renal impairment have not been studied. Meloxicam is not dialyzable.

#### Rizatriptan

In patients with renal impairment (creatinine clearance 10-60 mL/min/1.73 m $^2$ ), the AUC<sub>0-inf</sub> of rizatriptan was not significantly different from that in subjects with normal renal function. In hemodialysis patients, (creatinine clearance <2 mL/min/1.73 m $^2$ ), however, the AUC for rizatriptan was greater than that in patients with normal renal function. Patients with severe renal impairment have not been studied [see Clinical Pharmacology (12.3)].

## 8.7 Hepatic Impairment

Use SYMBRAVO, because of the meloxicam component, with caution in patients with hepatic impairment, and monitor for adverse reactions when used in patients with severe hepatic impairment.

SYMBRAVO has not been studied in patients with hepatic impairment. The individual components, meloxicam and rizatriptan, have been studied and the results are described below.

## Meloxicam

Following oral administration of meloxicam, patients with mild to moderate hepatic impairment had no marked differences in plasma concentrations. Patients with severe hepatic impairment have not been adequately studied. Meloxicam is significantly metabolized in the liver and hepatotoxicity may occur [see Warnings and Precautions (5.8), Clinical Pharmacology (12.3)].

#### Rizatriptan

Following oral administration of rizatriptan in patients with hepatic impairment caused by mild to moderate alcoholic cirrhosis of the liver, plasma concentrations of rizatriptan were similar in patients with mild hepatic impairment and greater in patients with moderate hepatic impairment, compared to a control group of subjects with normal hepatic function [see Clinical Pharmacology (12.3)].

#### 8.8 Poor Metabolizers of CYP2C9 Substrates

In patients who are known or suspected to be poor CYP2C9 metabolizers based on genotype or previous history/experience with other CYP2C9 substrates (e.g., warfarin and phenytoin), the use of SYMBRAVO is not recommended as they may have abnormally high plasma levels due to reduced metabolic clearance of meloxicam. If SYMBRAVO is used in patients who are poor CYP2C9 metabolizers, monitor for adverse reactions.

#### 10 OVERDOSAGE

No overdoses of SYMBRAVO were reported during clinical trials in adults. Evaluation and treatment of SYMBRAVO overdose is based on experience with the individual components, meloxicam and rizatriptan.

In case of an overdosage, discontinue SYMBRAVO and contact a regional poison control center at 1-800-222-1222.

## Overdose of Meloxicam

Symptoms following acute meloxicam overdoses have been typically limited to lethargy, drowsiness, nausea, vomiting, and epigastric pain, which have been generally reversible with supportive care. Gastrointestinal bleeding has occurred. Hypertension, acute renal failure, respiratory depression and coma have occurred, but were rare [see Warnings and Precautions (5.2, 5.9, 5.11, 5.15)].

Manage patients with symptomatic and supportive care following a meloxicam overdosage. There are no specific antidotes. Consider emesis and/or activated charcoal (60 to 100 grams in adults, 1 to 2 grams per kg of body weight in pediatric patients) and/or osmotic cathartic in symptomatic patients seen within four hours of ingestion or in patients with a large overdosage (5 to 10 times the recommended dosage). Forced diuresis, alkalinization of urine, hemodialysis, or hemoperfusion may be employed but are not likely to be useful due to high protein binding.

There is limited experience with meloxicam overdose. In four reported cases of meloxicam overdose, patients took 6- to 11-times the highest available oral dose of meloxicam tablets (15 mg); all recovered. Cholestyramine is known to accelerate the clearance of meloxicam. Accelerated removal of meloxicam by 4 g doses of cholestyramine given three times a day was demonstrated in a clinical trial. Administration of cholestyramine may be useful following an overdosage.

## Overdose of Rizatriptan

In a clinical pharmacology study in which 12 adult subjects received rizatriptan at total cumulative doses of 80 mg (given within four hours), two of the subjects experienced syncope, dizziness, bradycardia including third degree AV block, vomiting, and/or incontinence.

Based on the pharmacology of rizatriptan, hypertension or myocardial ischemia could occur after overdosage. Gastrointestinal decontamination, (i.e., gastric lavage followed by activated charcoal) should be considered in patients suspected of an overdose with rizatriptan. Clinical and electrocardiographic monitoring should be continued for at least 12 hours, even if clinical symptoms are not observed. The effects of hemo- or peritoneal dialysis on serum concentrations of rizatriptan are unknown.

#### 11 DESCRIPTION

SYMBRAVO contains meloxicam, a nonsteroidal anti-inflammatory drug (NSAID), and rizatriptan (as rizatriptan benzoate), a selective  $5-HT_{1B/1D}$  receptor agonist.

Meloxicam

Meloxicam has the molecular formula  $C_{14}H_{13}N_3O_4S_2$  and is chemically designated as 4-hydroxy-2-methyl-N-(5 methyl-2-thiazolyl)-2H-1,2-benzothiazine-3-carboxamide-1,1-dioxide. It has a molecular weight of 351.4 g/mole.

The structural formula is:

Meloxicam is a pastel yellow solid, practically insoluble in water, with higher solubility observed in strong acids and bases. It is very slightly soluble in methanol. Meloxicam has an apparent partition coefficient (log P) = 0.1 in n-octanol/buffer pH 7.4. Meloxicam has pKa values of 1.1 and 4.2.

#### Rizatriptan

Rizatriptan benzoate has the molecular formula  $C_{15}H_{19}N_5 \cdot C_7H_6O_2$  and is chemically designated as N,N-dimethyl-5-(1H-1,2,4-triazol-1-ylmethyl)-1H indole-3 ethanamine monobenzoate. The molecular weight of the free base rizatriptan is 269.4 g/mole. The structural formula is:

Rizatriptan benzoate is a white to off-white, crystalline solid that is soluble in water at about 42 mg per mL (expressed as free base) at 25°C.

Each SYMBRAVO tablet for oral administration contains 20 mg of meloxicam and 10 mg of rizatriptan (equivalent to 14.5 mg of rizatriptan benzoate). Each tablet also contains the excipients colloidal silicon dioxide, crospovidone, magnesium stearate, microcrystalline cellulose, partially hydrolyzed polyvinyl alcohol, polyethylene glycol, povidone, pregelatinized starch, sodium bicarbonate, sulfobutyl-ether-ß-cyclodextrin sodium, talc, and titanium dioxide.

## 12 CLINICAL PHARMACOLOGY

#### 12.1 Mechanism of Action

SYMBRAVO contains meloxicam and rizatriptan.

Meloxicam has analgesic, anti-inflammatory, and antipyretic properties. The mechanism of action of meloxicam, like that of other NSAIDs, is not completely understood but involves inhibition of cyclooxygenase (COX-1 and COX-2).

Meloxicam is a potent inhibitor of prostaglandin synthesis in vitro. Meloxicam concentrations reached during therapy have produced in vivo effects. Prostaglandins sensitize afferent nerves and potentiate the action of bradykinin in inducing pain in animal models. Prostaglandins are mediators of inflammation. Because meloxicam is an inhibitor of prostaglandin synthesis, its mode of action may be due to a decrease of prostaglandins in peripheral tissues.

Rizatriptan binds with high affinity to human cloned 5-HT $_{1B/1D}$  receptors. Rizatriptan presumably exerts its therapeutic effects in the treatment of migraine headache by binding to 5-HT $_{1B/1D}$  receptors located on intracranial blood vessels and sensory nerves of the trigeminal system.

## 12.2 Pharmacodynamics

## Cardiac Electrophysiology

## Rizatriptan

The effects of rizatriptan on QT prolongation have not been studied; however, arrhythmias have occurred after administration of 5-HT $_1$  agonists [see Warnings and Precautions (5.3)].

## **Blood Pressure**

## Rizatriptan

Significant elevation in blood pressure, including hypertensive crisis, has been reported

in patients treated with rizatriptan, with and without a history of hypertension [see Warnings and Precautions (5.9)].

#### 12.3 Pharmacokinetics

SYMBRAVO is a combination of rizatriptan and meloxicam. Meloxicam when given as SYMBRAVO has a mean  $C_{max}$  of approximately 2,900 ng/mL and a mean  $AUC_{0-24}$  of approximately 33,000 ng\*hr/mL. Rizatriptan when given as SYMBRAVO has a mean  $C_{max}$  of 32 ng/mL and a mean  $AUC_{0-24}$  of 83 ng\*hr/mL.

#### Absorption

After oral administration of a single dose of SYMBRAVO under fasted conditions, the median  $T_{max}$  for the meloxicam component is 0.88 hours, which is less than oral meloxicam tablets ( $T_{max}$  of 4-5 hours). The median  $T_{max}$  for the rizatriptan component is 0.75 hours.

#### Effect of Food

The exposures of meloxicam and rizatriptan were comparable after administration of SYMBRAVO in the fasted and fed states. Administration of SYMBRAVO after a high-fat, high-calorie meal decreased the exposures of meloxicam by approximately 7% for  $AUC_{0-24}$  and 27% for  $C_{max}$  and increased the  $AUC_{0-24}$  of rizatriptan by approximately 10% with no significant change in  $C_{max}$ . Food intake delayed the time to maximal plasma concentration for both meloxicam (from 0.88 hours to 5 hours) and rizatriptan (from 0.75 hours to 1.5 hours). Therapeutic concentrations of meloxicam were achieved within 1.5 hours with co-administration of food [see Dosage and Administration (2.2)].

#### **Distribution**

#### Meloxicam

The apparent volume of distribution during the terminal elimination phase (Vz) of meloxicam is approximately 10 L.

Meloxicam is approximately 99.4% bound to human plasma proteins (primarily albumin) within the therapeutic dose range. The fraction of protein binding is independent of drug concentration, over the clinically relevant concentration range, but decreases to approximately 99% in patients with renal disease. Meloxicam penetration into human red blood cells, after oral dosing, is less than 10%. Following a radiolabeled dose, over 90% of the radioactivity detected in the plasma was present as unchanged meloxicam.

#### Rizatriptan

The mean volume of distribution of rizatriptan is approximately 140 liters in male subjects and 110 liters in female subjects. Rizatriptan is minimally bound (14%) to plasma proteins.

#### **Elimination**

#### **Metabolism**

#### Meloxicam

Meloxicam is extensively metabolized in the liver. Meloxicam metabolites include 5'-carboxy meloxicam (60% of dose), from cytochrome P450 (CYP) mediated metabolism formed by oxidation of an intermediate metabolite, 5'-hydroxymethyl meloxicam, which is also excreted to a lesser extent (9% of dose). *In vitro* studies indicate that CYP2C9 plays an important role in this metabolic pathway with a minor contribution of the CYP3A4 isozyme. Patients' peroxidase activity is probably responsible for the other two metabolites, which account for 16% and 4% of the administered dose, respectively. The four metabolites are not known to have any in vivo pharmacological activity.

#### Rizatriptan

The primary route of rizatriptan metabolism is via oxidative deamination by monoamine oxidase-A (MAO-A) to the indole acetic acid metabolite, which is not active at the 5-HT $_{1B/1D}$  receptor. N-monodesmethyl-rizatriptan, a metabolite with activity similar to that of the parent compound at the 5-HT $_{1B/1D}$  receptor, is formed to a minor degree. Plasma concentrations of N-monodesmethyl-rizatriptan are approximately 14% of those of parent compound, and it is eliminated at a similar rate. Other minor metabolites, the N-oxide, the 6-hydroxy compound, and the sulfate conjugate of the 6-hydroxy metabolite are not active at the 5-HT $_{1B/1D}$  receptor.

After administration of SYMBRAVO, mean elimination half-life is approximately 18 hours for meloxicam and 2 hours for rizatriptan.

#### **Excretion**

#### Meloxicam

Meloxicam excretion is predominantly in the form of metabolites and occurs to equal extents in the urine and feces. Only traces of the unchanged parent compound are excreted in the urine (0.2%) and feces (1.6%). The extent of the urinary excretion was confirmed for unlabeled multiple 7.5 mg doses: 0.5%, 6%, and 13% of the dose were found in urine in the form of meloxicam, and the 5'-hydroxymethyl and 5'-carboxy metabolites, respectively. There is significant biliary and/or enteral secretion of the drug. This was demonstrated when oral administration of cholestyramine following a single intravenous dose of meloxicam decreased the AUC of meloxicam by 50%. The mean elimination half-life ( $t_{1/2}$ ) ranges from 15 hours to 20 hours. Plasma clearance ranges from 7 to 9 mL/min.

#### Rizatriptan

The total radioactivity of the administered dose recovered over 120 hours in urine and feces was 82% and 12%, respectively, following a single 10 mg oral administration of  $^{14}\mathrm{C}\text{-rizatriptan}$ . Following oral administration of  $^{14}\mathrm{C}\text{-rizatriptan}$ , rizatriptan accounted for about 17% of circulating plasma radioactivity. Approximately 14% of an oral dose is excreted in urine as unchanged rizatriptan while 51% is excreted as indole acetic acid metabolite, indicating substantial first pass metabolism. The plasma half-life of rizatriptan in males and females averages 2-3 hours.

#### Cytochrome P450 Isoforms

Rizatriptan is not an inhibitor of the activities of human liver cytochrome P450 isoforms 3A4/5, 1A2, 2C9, 2C19, or 2E1; rizatriptan is a competitive inhibitor ( $K_i$ =1400 nM) of cytochrome P450 2D6, but only at high, clinically irrelevant concentrations.

#### Specific Populations

Studies have not been conducted to assess the pharmacokinetics of SYMBRAVO in geriatric patients or in patients with renal or hepatic impairment.

Based on population pharmacokinetics analyses, age and gender do not have a clinically meaningful effect on the pharmacokinetics of meloxicam.

## Geriatric Patients

Rizatriptan pharmacokinetics in healthy elderly volunteers without migraine (age 65-77 years) were similar to those in younger volunteers without migraine (age 18-45 years).

#### Male and Female Patients

The mean AUC $_{0-\infty}$  and  $C_{max}$  of rizatriptan (10 mg orally) were about 30% and 11% higher in females as compared to males, respectively, while  $T_{max}$  occurred at approximately the same time.

## Patients with Renal Impairment

#### Meloxicam

The pharmacokinetics of meloxicam have been investigated in elderly subjects with mild renal impairment (eGFR 60 – 90) compared to young healthy volunteers. A 5% and 7% increase of  $C_{max}$  and AUC, respectively, was observed in elderly subjects with mild renal impairment. Use of meloxicam in patients with moderate or severe renal impairment have not been studied [see Use in Specific Populations (8.6)].

## Rizatriptan

In patients with renal impairment (creatinine clearance 10-60 mL/min/1.73 m²), the  $AUC_{0-\infty}$  of rizatriptan was not significantly different from that in subjects with normal renal function. In hemodialysis patients, (creatinine clearance <2 mL/min/1.73 m²), however, the AUC for rizatriptan was approximately 44% greater than that in patients with normal renal function. Use of rizatriptan in patients with moderate and severe renal impairment have not been adequately studied.

#### Patients with Hepatic Impairment

## Meloxicam

Following a single 15 mg dose of meloxicam tablets there was no marked difference in plasma concentrations in patients with mild (Child-Pugh Class I) or moderate (Child-Pugh Class II) hepatic impairment compared to healthy volunteers. Protein binding of meloxicam was not affected by hepatic impairment. Use of meloxicam in patients with severe hepatic impairment (Child-Pugh Class III) have not been adequately studied [see Warnings and Precautions (5.8), Use in Specific Populations (8.7)].

## Rizatriptan

Following oral administration of rizatriptan in patients with hepatic impairment caused by mild to moderate alcoholic cirrhosis of the liver, plasma concentrations of rizatriptan

were similar in patients with mild hepatic impairment compared to a control group of subjects with normal hepatic function; plasma concentrations of rizatriptan were approximately 30% greater in patients with moderate hepatic impairment.

## **Drug Interaction Studies**

<u>Aspirin</u>: When NSAIDs were administered with aspirin, the protein binding of NSAIDs were reduced, although the clearance of free NSAID was not altered. The clinical significance of this interaction is not known [see Drug Interactions (7.1)].

<u>Cholestyramine</u>: Pretreatment for four days with cholestyramine significantly increased the clearance of meloxicam by 50%. This resulted in a decrease in  $t_{1/2}$ , from 19.2 hours to 12.5 hours, and a 35% reduction in AUC. This suggests the existence of a recirculation pathway for meloxicam in the gastrointestinal tract. The clinical relevance of this interaction has not been established.

<u>Cimetidine</u>: Concomitant administration of 200 mg cimetidine four times daily did not alter the single-dose pharmacokinetics of 30 mg meloxicam.

<u>Digoxin</u>: Meloxicam tablets 15 mg once daily for 7 days did not alter the plasma concentration profile of digoxin after  $\beta$ -acetyldigoxin administration for 7 days at clinical doses. In vitro testing found no protein binding drug interaction between digoxin and meloxicam [see Drug Interactions (7.1)].

<u>Lithium</u>: In a study conducted in healthy subjects, mean pre-dose lithium concentration and AUC were increased by 21% in subjects receiving lithium doses ranging from 804 to 1072 mg twice daily with meloxicam tablets 15 mg once per day every day as compared to subjects receiving lithium alone [see Drug Interactions (7.1)].

<u>Methotrexate</u>: A study in 13 rheumatoid arthritis (RA) patients evaluated the effects of multiple oral doses of meloxicam on the pharmacokinetics of methotrexate taken once weekly. Meloxicam did not have a significant effect on the pharmacokinetics of single doses of methotrexate. In vitro, methotrexate did not displace meloxicam from its human serum binding sites [Drug Interactions (7.1)].

Monoamine Oxidase Inhibitors: Rizatriptan is principally metabolized via monoamine oxidase, 'A' subtype (MAO-A). Plasma concentrations of rizatriptan may be increased by drugs that are selective MAO-A inhibitors (e.g., moclobemide) or nonselective MAO inhibitors [type A and B] (e.g., isocarboxazid, phenelzine, tranylcypromine, and pargyline). In a drug interaction study, when 10 mg of rizatriptan was administered to subjects (n=12) receiving concomitant therapy with the selective, reversible MAO-A inhibitor, moclobemide 150 mg three times a day, there were mean increases in rizatriptan AUC and  $C_{max}$  of 119% and 41% respectively; and the AUC of the active N-monodesmethyl metabolite of rizatriptan was increased more than 400%. The interaction would be expected to be greater with irreversible MAO inhibitors. No pharmacokinetic interaction is anticipated in patients receiving selective MAO-B inhibitors [Contraindications (4)].

<u>Nadolol/Metoprolol</u>: In a drug interactions study, effects of multiple doses of nadolol 80 mg or metoprolol 100 mg every 12 hours on the pharmacokinetics of a single dose of 10 mg rizatriptan were evaluated in healthy subjects (n=12). No pharmacokinetic interactions were observed.

<u>Oral Contraceptives</u>: In a study of concurrent administration of an oral contraceptive during 6 days of administration of rizatriptan (10-30 mg/day) in healthy female volunteers (n=18), rizatriptan did not affect plasma concentrations of ethinyl estradiol or norethindrone.

<u>Propranolol</u>: In a study of concurrent administration of propranolol 240 mg/day and a single dose of rizatriptan 10 mg in healthy adult subjects (n=11), mean plasma AUC for rizatriptan was increased by 70% during propranolol administration, and a 4-fold increase was observed in one subject. The AUC of the active N-monodesmethyl metabolite of rizatriptan was not affected by propranolol [see Contraindications (4) and Drug Interactions (7.1)].

<u>Paroxetine</u>: In a study of the interaction between the SSRI paroxetine 20 mg/day for two weeks and a single dose of rizatriptan 10 mg in healthy subjects (n=12), neither the plasma concentrations of rizatriptan nor its safety profile were affected by paroxetine [see Warnings and Precautions (5.18), Drug Interactions (7.1), and Patient Counseling Information (17)].

<u>Warfarin</u>: The effect of meloxicam tablets on the anticoagulant effect of warfarin was studied in a group of healthy subjects receiving daily doses of warfarin that produced an International Normalized Ratio (INR) between 1.2 and 1.8. In these subjects, meloxicam did not alter warfarin pharmacokinetics and the average anticoagulant effect of warfarin as determined by prothrombin time. However, one subject showed an increase in INR from 1.5 to 2.1 [see Drug Interactions (7.1)].

#### 12.5 Pharmacogenomics

CYP2C9 activity is reduced in individuals with genetic variants such as CYP2C9\*2 and CYP2C9\*3 polymorphisms. Limited data from three published reports showed that meloxicam AUC was substantially higher in individuals with reduced CYP2C9 activity, particularly in poor metabolizers (e.g., \*3/\*3), compared to normal metabolizers (\*1/\*1). The frequency of CYP2C9 poor metabolizer genotypes varies based on racial/ethnic background but is generally present in <5% of the population [see Use in Specific Populations (8.8)].

#### 13 NONCLINICAL TOXICOLOGY

## 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

The potential effects of the SYMBRAVO on carcinogenesis, mutagenesis, or impairment of fertility have not been studied. However, the individual components, meloxicam and rizatriptan, have been studied and the results of these studies are described below.

## **Carcinogenesis**

#### Meloxicam

There was no increase in tumor incidence in long-term carcinogenicity studies in rats (104 weeks) and mice (99 weeks) administered meloxicam at oral doses up to 0.8 mg/kg/day in rats and up to 8.0 mg/kg/day in mice (up to 0.4 and 2 times, respectively, the MRHD of 20 mg/day of meloxicam on a mg/m<sup>2</sup> basis).

#### Rizatriptan

Oral carcinogenicity studies of rizatriptan were conducted in mice (100 weeks) and rats (106 weeks) at doses of up to 125 mg/kg/day (up to 60 and 120 times, respectively, the MRHD of 10 mg of rizatriptan on a  $mg/m^2$  basis). There was no evidence of an increase in tumor incidence related to rizatriptan in either species.

#### <u>Mutagenesis</u>

#### Meloxicam

Meloxicam was not mutagenic in an Ames assay. Meloxicam was not clastogenic in an *in vitro* chromosome aberration assay with human lymphocytes and an *in vivo* micronucleus assay in mouse bone marrow.

## Rizatriptan

Rizatriptan was neither mutagenic nor clastogenic in a battery of *in vitro* and *in vivo* genetic toxicity studies, including: the microbial mutagenesis (Ames) assay, *in vitro* mammalian cell mutagenesis and chromosomal aberration assays, and the *in vivo* chromosomal aberration assay in mouse.

#### <u>Impairment of fertility</u>

## Meloxicam

Meloxicam did not impair male and female fertility in rats at oral doses up to 9 mg/kg/day in males and 5 mg/kg/day in females (up to 4.4 and 2.4 times greater, respectively, than the MRHD of 20 mg of meloxicam on a mg/m² basis).

In a published study, oral administration of 1 mg/kg (0.5 times the MRHD on a mg/m² basis) meloxicam to male rats for 35 days resulted in decreased sperm count and motility and histopathological evidence of testicular degeneration. The clinical relevance of these findings is unknown.

#### Rizatriptan

Oral administration of rizatriptan (0, 2, 10, or 100 mg/kg/day) to female rats prior to and during mating and continuing throughout gestation and lactation resulted in no effect on fertility; however, altered estrous cyclicity and delays in time to mating were observed at the highest dose tested. The no-effect dose for reproductive toxicity was approximately 10 mg/kg/day (10 times the MRHD of 10 mg rizatriptan on a mg/m² basis). Oral administration of rizatriptan (0, 5, 35, or 250 mg/kg/day) to male rats prior to and during mating resulted in no impairment of fertility or reproductive performance. The highest dose tested (250 mg/kg/day) was 242 times the MRHD of 10 mg rizatriptan on a mg/m² basis.

## 14 CLINICAL STUDIES

The efficacy of SYMBRAVO for the acute treatment of migraine with or without aura in adults was demonstrated in one randomized, double-blind, controlled trial [Study 1 (NCT03896009)]. SYMBRAVO demonstrated an effect on headache pain freedom and most bothersome symptom (MBS) freedom at two hours after dosing, compared to placebo. Among patients who selected an MBS, the most commonly selected symptom was photophobia (61%), followed by nausea (20%), and phonophobia (19%).

In Study 1, 1,594 patients with a history of migraine with or without aura, according to the International Classification of Headache Disorders (ICHD-3) diagnostic criteria, were randomized to receive either SYMBRAVO (N=456), 10 mg rizatriptan (N=456), 20 mg meloxicam (matching the formulation of the meloxicam used in SYMBRAVO) (N=455), or placebo (N=227). Patients were instructed to treat a migraine of moderate to severe pain intensity with a single dose of medication. Rescue medication (including triptans and NSAIDs) was allowed 2 hours after the initial treatment; however, ergots were not allowed within 24 hours before or after study drug administration, and opioids were not allowed for the duration of the study. Patients were 83% female and 17% male, predominantly White (77%), with a mean age of 41.2 years (range 18-67). Approximately 7% of patients were taking preventive medications for migraine at baseline.

The primary efficacy analyses were conducted in patients who treated a migraine with moderate to severe pain. Pain freedom was defined as a reduction of moderate or severe headache pain to no headache pain, and MBS freedom was defined as the absence of the self-identified MBS (i.e., photophobia, phonophobia, or nausea). The percentage of patients achieving headache pain freedom and MBS freedom 2 hours after a single dose was statistically significantly greater among patients who received SYMBRAVO compared to those who received placebo (Table 3).

The key secondary endpoint of percentage of patients who experienced sustained pain freedom up to 24 hours (pain free from 2 hours through 24 hours postdose without use of other medications) was statistically significantly greater among patients who received a single dose of SYMBRAVO (16.1%) compared to those who received meloxicam (9%; p=0.001), or rizatriptan (11%; p=0.038).

Additional secondary endpoints included pain relief (reduction in migraine pain intensity from moderate or severe to mild or no headache pain) and the ability to perform normal daily activities at 2 hours after dosing. The ability to perform normal daily activities at two hours after dosing was derived from a single item questionnaire, which asked patients to select one response on a 4-point scale; normal function, mild impairment, severe impairment, or required bedrest. A statistically significantly greater percentage of participants who received SYMBRAVO achieved pain relief at 2 hours after dosing and were able to perform normal daily activities at 2 hours after dosing when compared to placebo (Table 3).

Table 3: Migraine Efficacy Endpoints for SYMBRAVO (Study 1)a

	<b>SYMBRAVO</b>	Rizatriptan	Meloxicam	Placebo
	(N=428)	(N=419)	(N=421)	(N=209)
Co-Primary Endpoints				
Pain Free at Hour 2	19.9% <sup>b</sup>	17.4%	11.6%	6.7%
MBS Free at Hour 2	36.9% <sup>b</sup>	35.8%	32.5%	24.4%
Key-Secondary Endpoint				
24 Hour Sustained Pain	16.1% <sup>c</sup>	11.2%	8.8%	5.3%
Freedom	10.176	11.2/0	0.070	J.J/0
Other Secondary Endpoints				
Pain Relief at Hour 2	69.2% <sup>b</sup>	65.6%	62.0%	54.5%
Able to Perform Normal Daily	32.0% <sup>b</sup>	30.3%	24.5%	21.1%
Activities at Hour 2	52.070	JU.J/0	27.3/0	21.1/0

<sup>&</sup>lt;sup>a</sup>*p*-values provided only for prespecified comparisons.

Use of rescue medication within 24 hours was also evaluated. There was a numerically lower percentage of patients who received SYMBRAVO and used a rescue medication within 24 hours (23%) vs rizatriptan (35%), meloxicam (35%), and placebo (44%).

Figure 1 presents the percentage of patients achieving migraine pain freedom within 2 hours following treatment in Study 1.

Figure 1: Percentage of Patients Achieving Migraine Pain Freedom Within 2 Hours in Study 1  $\,$ 

 $<sup>^{\</sup>rm b}p$ <0.01 versus placebo.

<sup>&</sup>lt;sup>c</sup>p<0.05 versus rizatriptan, and meloxicam.

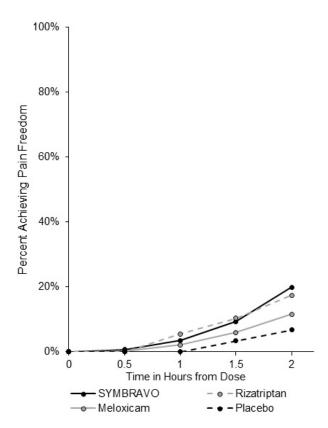
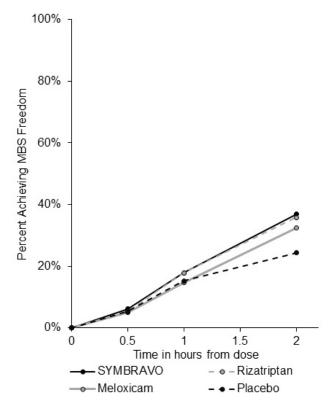


Figure 2 presents the percentage of patients achieving MBS freedom within 2 hours following treatment Study 1.

Figure 2: Percentage of Patients Achieving MBS Freedom Within 2 Hours in Study  ${\bf 1}$ 



The incidence of photophobia and phonophobia at 2 hours was reduced following administration of SYMBRAVO as compared to placebo, with 33.5% and 23.5%. of subjects, respectively, reporting absence of photophobia, and 40.0% vs 18.6% of patients, respectively, reporting absence of phonophobia.

Study 2: Treatment of a Migraine When Mild in Severity

In Study 2 (NCT04163185), 302 patients with a history of migraine with or without aura, according to the ICHD-3 diagnostic criteria, were randomized to either SYMBRAVO (N=152) or placebo (N=150). Patients were instructed to treat a migraine when the initial pain was mild, with a single dose of medication. Rescue medication was allowed 2 hours after the initial treatment. Patients were 85.4% female and 14.6% male, predominantly White (83.1%), with a mean age of 41.5 years (range 19-65), and a mean BMI of 28.5 kg/m² (range 17.2-39.9). Approximately 6.4% of patients were taking preventive medications for migraine at baseline.

The primary efficacy analyses were conducted in patients who treated a migraine with initial pain that was mild. The percentage of patients achieving headache pain freedom and MBS freedom 2 hours after a single dose was statistically significantly greater among patients who received SYMBRAVO compared to those who received placebo (Table 4). Pain freedom at 2 hours was 32.6% in the SYMBRAVO treated group, compared to 16.3% in placebo (p=0.002). MBS freedom at 2 hours was 43.9% in the SYMBRAVO treated group, compared to 26.7% in the placebo group (p=0.003) (Table 4).

Table 4: Migraine Efficacy Endpoints for SYMBRAVO in Treatment of a Migraine at Mild Pain Intensity (Study 2)

	SYMBRAVO	Placebo
Pain Free at 2 hours		
N	132	135
% Responder	32.6%	16.3%
p-value	0.002	
Most Bothersome Sympt	tom Free at 2 hours	
N	132	135
% Responder	43.9%	26.7%
p-value	0.003	

In Study 2, the percentage of patients with sustained pain freedom from 2 to 24 hours was numerically greater in SYMBRAVO than placebo (22.7% vs 12.6%) and rescue medication use within 24 hours was also numerically less in SYMBRAVO than placebo (15.2% vs 42.2%).

Figure 3 presents the percentage of patients achieving migraine pain freedom within 2 hours following treatment Study 2.

Figure 3: Percentage of Patients Achieving Pain Freedom Within 2 Hours in Study 2

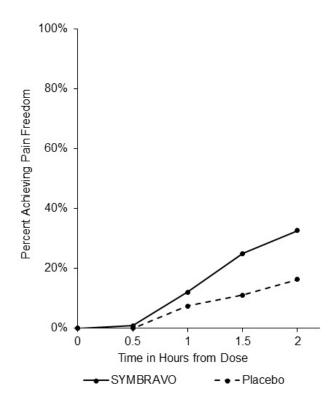
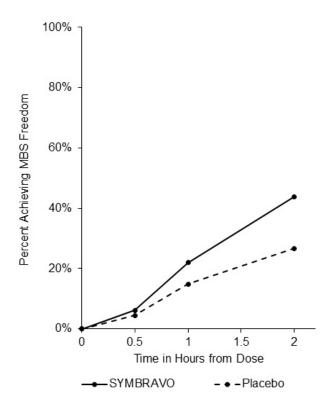


Figure 4 presents the percentage of patients achieving MBS freedom within 2 hours following treatment Study 2.

Figure 4: Patients of Patients Achieving MBS Freedom Within 2 Hours in Study 2



The incidence of photophobia and phonophobia at 2 hours was reduced following administration of SYMBRAVO as compared to placebo, with 43.2% vs 20.5%. of patients, respectively, reporting absence of photophobia, and 43.8% vs 25.0% of patients, respectively, reporting absence of phonophobia.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

## 16.1 How Supplied

SYMBRAVO tablets are white, modified capsule-shaped, film-coated and debossed with "MXRZ" on one side and "20/10" on the other. SYMBRAVO is supplied in the following package configuration:

Package Configuration	Strength	NDC Code
Bottles of 9 tablets	meloxicam 20 mg and rizatriptan 10 mg	81968-020-09

## 16.2 Storage and Handling

Store SYMBRAVO in the original bottle at 20°C to 25°C (68°F to 77°F), excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature].

#### 17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

## Cardiovascular Thrombotic Effects

Advise patients to be alert for the symptoms of cardiovascular thrombotic events, including chest pain, shortness of breath, weakness, or slurring of speech, and to report any of these symptoms to their healthcare provider immediately [see Warnings and Precautions (5.1)].

Risk of Myocardial Ischemia and/or Infarction, Prinzmetal's Angina, Other Vasospasm-Related Events, and Cerebrovascular Events

Inform patients that rizatriptan, a component of SYMBRAVO, may cause serious

cardiovascular side effects such as myocardial infarction or stroke. 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. Patients should be apprised of the importance of this follow-up [see Warnings and Precautions (5.1, 5.3, 5.4, 5.6, 5.7)].

## Gastrointestinal Bleeding, Ulceration, and Perforation

Advise patients to report symptoms of ulcerations and bleeding, including epigastric pain, dyspepsia, melena, and hematemesis to their healthcare provider. In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, inform patients of the increased risk for the signs and symptoms of GI bleeding [see Warnings and Precautions (5.2)].

#### Anaphylactic Reactions

Inform patients of the signs of an anaphylactic reaction (e.g., difficulty breathing, swelling of the face or throat). Instruct patients to seek immediate emergency help if these occur [see Contraindications (4) and Warnings and Precautions (5.5, 5.16)].

## **Hepatotoxicity**

Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, diarrhea, pruritus, jaundice, right upper quadrant tenderness, and "flulike" symptoms). If these occur, instruct patients to stop SYMBRAVO and seek immediate medical therapy [see Warnings and Precautions (5.8)].

#### Heart Failure and Edema

Advise patients to be alert for the symptoms of congestive heart failure including shortness of breath, unexplained weight gain, or edema and to contact their healthcare provider if such symptoms occur [see Warnings and Precautions (5.10)].

## Serious Skin Reactions, including DRESS

Advise patients to stop SYMBRAVO immediately if they develop any type of rash or fever and to contact their healthcare provider as soon as possible [see Contraindications (4), Warnings and Precautions (5.12, 5.13)].

## Female Fertility

Advise females of reproductive potential who desire pregnancy that meloxicam, a component of SYMBRAVO, may be associated with a reversible delay in ovulation [see Use in Specific Populations (8.3)].

## Lactation

Advise patients to notify their healthcare provider if they are breastfeeding or plan to breastfeed [see Use in Specific Populations (8.2)].

## **Fetal Toxicity**

Inform pregnant women to avoid use of SYMBRAVO and other NSAIDs starting at 30 weeks gestation because of the risk of the premature closing of the fetal ductus arteriosus. If treatment with SYMBRAVO is needed for a pregnant woman between about 20 to 30 weeks gestation, advise her that she may need to be monitored for oligohydramnios, if treatment continues for longer than 48 hours [see Warnings and Precautions (5.14), Use in Specific Populations (8.1)].

#### Avoid Concomitant Use of NSAIDs

Inform patients that the concomitant use of SYMBRAVO with other NSAIDs or salicylates (e.g., diflunisal, salsalate) is not recommended due to the increased risk of gastrointestinal toxicity, and little or no increase in efficacy [see Warnings and Precautions (5.2), Drug Interactions (7.1)]. Alert patients that NSAIDs may be present in "over the counter" medications for treatment of colds, fever, or insomnia.

## Use of NSAIDs and Low-Dose Aspirin

Inform patients not to use low-dose aspirin concomitantly with SYMBRAVO until they talk to their healthcare provider [see Drug Interactions (7.1)].

## 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 (5.17)].

## Serotonin Syndrome

Patients should be cautioned about the risk of serotonin syndrome with the use of SYMBRAVO, particularly during combined use with SSRIs or SNRIs [see Warnings and Precautions (5.18), Drug Interactions (7.1), Clinical Pharmacology (12.3)].

## Ability to Perform Complex Tasks

Since migraines or treatment with SYMBRAVO may cause somnolence and dizziness, instruct patients to evaluate their ability to perform complex tasks during migraine attacks and after administration of SYMBRAVO.

Distributed by:

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Axsome Therapeutics, Inc.

New York, NY 10007

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SYM-USPI-001.001-20250224

## **MEDICATION GUIDE**

SYMBRAVO® (sim-BRAH-voh) (meloxicam-rizatriptan) tablets, for oral use

What is the most important information I should know about SYMBRAVO? SYMBRAVO contains 2 medicines: meloxicam (a nonsteroidal anti-inflammatory drug [NSAID]) and rizatriptan (a

NSAIDs, including SYMBRAVO, can cause serious side effects, including:

- Increased risk of a heart attack or stroke that can lead to death. This risk may happen early in treatment and may increase:
  - with increasing doses of NSAIDs
  - with longer use of NSAIDs

Do not take SYMBRAVO right before or after a heart surgery called a "coronary artery bypass graft (CABG)." Avoid taking SYMBRAVO after a recent heart attack unless your healthcare provider tells you to. You may have an increased risk of another heart attack if you take NSAIDs after a recent heart attack. Stop taking SYMBRAVO and get emergency help right away if you have any of the following symptoms of a heart attack or stroke:

- o discomfort in the center of your chest that lasts for more than a few minutes, or that goes away and comes back
- severe tightness, pain, pressure, or heaviness in your chest, throat, neck, or jaw
- o pain or discomfort in your arms, back, neck, jaw, or stomach
- shortness of breath with or without chest discomfort
- o breaking out in a cold sweat
- nausea or vomiting
- feeling lightheaded
- weakness in one part or on side of your body
- slurred speech

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

- have high blood pressure
- have high cholesterol levels
- smoke
- are overweight
- have diabetes
- have a family history of diabetes
- Increased risk of bleeding, ulcers, and tears (perforation) of the esophagus (tube leading from the mouth to the stomach), stomach, and intestines:
  - o anytime during use
  - without warning symptoms
  - that may cause death

## The risk of getting an ulcer or bleeding increases with:

- past history of stomach ulcers, or stomach or intestinal bleeding with use of NSAIDs
- taking medicines called "corticosteroids", "anticoagulants", "SSRIs" or "SNRIs" (antidepressants), or aspirin (an antiplatelet)
- increasing doses of NSAIDs

- older age
- longer use of NSAIDs
- poor health
- smoking
- o advanced liver disease
- drinking alcohol
- bleeding problems
- SYMBRAVO may cause serious allergic reactions or serious skin reactions that can be life-threatening. Stop taking SYMBRAVO and get emergency help right away if you develop:
  - sudden wheezing
  - swelling of your lips, tongue, throat or body
  - rash
  - fainting
  - problems breathing or swallowing
  - reddening of your skin with blisters or peeling
  - o blisters or bleeding of your lips, eye lids, mouth, nose, or genitals

## • SYMBRAVO should only be used:

- exactly as prescribed
- for the shortest time needed
- SYMBRAVO already contains an NSAID (meloxicam). Do not use SYMBRAVO with other medicines to lessen pain or fever or with other medicines for colds or sleeping problems without talking to your healthcare provider first, because they may contain an NSAID also.

#### What is SYMBRAVO?

## SYMBRAVO is a combination of meloxicam (an NSAID) and rizatriptan (a triptan).

SYMBRAVO is used to treat acute migraine headaches with or without aura in adults.

SYMBRAVO is not for the treatment of other types of migraines such as hemiplegic (that make you unable to move on one side of your body) or basilar (rare form of migraine with aura).

SYMBRAVO is not to be used to prevent or decrease the number of migraine headaches you have.

It is not known if SYMBRAVO is safe and effective for the treatment of cluster headaches.

It is not known if SYMBRAVO is safe and effective in children.

## Who should not take SYMBRAVO? Do not take SYMBRAVO if you:

- have or have had heart problems.
- right before or after heart bypass surgery.
- have or have had a stroke or a transient ischemic attack (TIA).
- have or have had blood vessel problems, including ischemic bowel disease.
- have or had hemiplegic migraines or basilar migraines.
- narrowing of blood vessels of your legs and arms (peripheral vascular disease), stomach (ischemic bowel disease), or kidneys.
- · have uncontrolled high blood pressure.
- take a propranolol containing medicines.
- have taken any medicines in the last 24 hours that are called 5-HT1 agonists (triptans) or contain ergotamine.
- take an antidepressant medicine called monoamine oxidase (MAO) inhibitor or have taken a MAO inhibitor within the last 2 weeks.
- are allergic to meloxicam, rizatriptan, NSAIDs or any of the ingredients in SYMBRAVO. See the end of this Medication Guide for a complete list of ingredients in SYMBRAVO.
- have had an asthma attack, hives, or other allergic reaction after taking with aspirin or any other NSAIDs.
- have moderate to severe kidney problems and are at risk of kidney failure or if you are on dialysis.

Talk to your healthcare provider before taking this medicine if you have any of the conditions listed above or if you are not sure if you take any of these medicines.

## What should I tell my healthcare provider before taking SYMBRAVO?

**Before you take SYMBRAVO,** tell your healthcare provider about all of your medical conditions, including if you:

- have or have had heart problems, high blood pressure, chest pain, or shortness of breath.
- have any risk factors for heart problems or blood vessel problems such as:
- high blood pressure
- high cholesterol
- smoking
- obesity

- diabetes
- family history of heart problems
- you are post-menopausal
- you are a male over 40

- · have kidney or liver problems.
- have asthma.

- · have any other medical condition.
- are pregnant or plan to become pregnant. Taking NSAIDs, including SYMBRAVO, at about 20 weeks of pregnancy or later
  may harm your unborn baby. If you need to take NSAIDs for more than 2 days when you are between 20 and 30 weeks of
  pregnancy, your healthcare provider may need to monitor the amount of fluid in your womb around your baby. You
  should not take NSAIDs after about 30 weeks of pregnancy.
- are breastfeeding or plan to breastfeed. Talk to your healthcare provider about the best way to feed your baby if you take SYMBRAVO.

## Tell your healthcare provider about all of the medicines you take, including prescription or over the counter medicines, vitamins, or herbal supplements.

SYMBRAVO and other medicines may affect each other causing side effects. SYMBRAVO may affect the way other medicines work, and other medicines may affect how SYMBRAVO works.

## Do not start taking any new medicine without talking to your healthcare provider first. Especially tell your healthcare provider if you take:

- propranolol containing medicines such as Inderal<sup>®</sup>, Inderal<sup>®</sup> LA, or Innopran<sup>®</sup> XL
- medicines used to help your mood, including SSRIs or SNRIs.
- Aspirin
- Any anticoagulant medicines

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

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

#### How should I take SYMBRAVO?

- Take SYMBRAVO exactly as your healthcare provider tells you to take it.
- It is not known if taking more than 1 dose of SYMBRAVO in 24 hours is safe and effective. Talk to your healthcare provider about what to do if your headache does not go away or comes back.
- Swallow SYMBRAVO tablets whole.
- **Do not** crush, divide, or chew SYMBRAVO tablets.
- SYMBRAVO can be taken with or without food.
- If you take too much SYMBRAVO, call your healthcare provider or go to the nearest hospital emergency room right away.

## What should I avoid while taking SYMBRAVO?

SYMBRAVO may 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 SYMBRAVO?

## **SYMBRAVO** can cause serious side effects, including:

## See "What is the most important information I should know about SYMBRAVO?

- heartbeats that are too fast or too slow (arrhythmias)
- new or worse high blood pressure
- heart failure
- liver problems including liver failure
- kidney problems including kidney failure
- low red blood cells (anemia)
- life-threatening skin reactions
- asthma attacks in people who have asthma
- Other side effects of NSAIDs, like SYMBRAVO, include: stomach pain, constipation, diarrhea, gas, heartburn, nausea, vomiting, and dizziness.
- Heart attack. Get emergency help right away if you have any of the following symptoms of a heart attack may include:
  - o chest discomfort in the center of your chest that lasts for more than a few minutes or that goes away and comes back
  - o chest discomfort that feels like uncomfortable pressure, squeezing, fullness or pain
  - o pain or discomfort in your arms, back, neck, jaw or stomach
  - shortness of breath with or without chest discomfort
  - $\circ~$  breaking out in a cold sweat
  - o nausea or vomiting
  - feeling lightheaded
- **Stroke.** Get emergency help right away if you have any of the symptoms of a stroke may include the following sudden symptoms:
  - o numbness or weakness in your face, arm or leg, especially on one side of your body
  - o confusion, problems speaking or understanding
  - o problems seeing in 1 or both of your eyes
  - o problems walking, dizziness, loss of balance or coordination
  - o severe headache with no known cause
- **Stomach and intestinal problems** (gastrointestinal and colonic ischemic events). Get emergency help right away if you have any of the following symptoms of gastrointestinal and colonic ischemic events including:

- sudden or severe stomach pain
- sudden unexplained weight loss
- severe constipation or diarrhea

- severe stomach pain after meals
- severe nausea or vomiting
- bloody diarrhea
- **Problems with blood circulation to your legs and feet**(peripheral vascular ischemia). Get emergency help right away if you have any of the following symptoms of peripheral vascular ischemia including:
  - o 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
  - o numbness, tingling, or weakness in your legs
  - o cold feeling or color changes in 1 or both legs or feet
- **Medication overuse headaches.** Some people who use too many SYMBRAVO tablets may have worse headaches (medication overuse headache). If your headaches get worse, your healthcare provider may decide to stop your treatment with SYMBRAVO.
- **Serotonin syndrome.** A condition called serotonin syndrome can happen when Triptan medicines such as SYMBRAVO are taken with certain other medicines called SSRIs or SNRIs. Stop taking SYMBRAVO and get emergency help 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 your blood pressure

- high body temperature
- tight muscles
- trouble walking

## Stop taking SYMBRAVO and call your healthcare provider right away if you get any of the following symptoms:

- o nausea
- more tired or weaker than usual
- o diarrhea
- itching
- your skin or eyes look yellow
- indigestion or stomach pain
- flu-like symptoms
- vision problems

- vomit blood
- there is blood in your bowel movement of it is black and sticky like tar
- unusual weight gain
- skin rash or blisters with fever
- swelling of the arms, legs, hands, and feet
- tenderness in your right upper side

## The most common side effects of SYMBRAVO include:

- dizziness
- · feeling tired

These are not all the possible side effects of SYMBRAVO. Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

For more information, ask your healthcare provider or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088

## Other information about NSAIDs:

- Aspirin is an NSAID, but it does not increase the chance of a heart attack. Aspirin can cause bleeding in the brain, stomach, and intestines. Aspirin can also cause ulcers in the stomach and intestines. **Do not** take aspirin with SYMBRAVO without talking to your healthcare provider first.
- Some NSAIDs are sold without a prescription (over the counter). Talk to your healthcare provider before using over the counter NSAIDs with SYMBRAVO.

## General Information about the safe and effective use of SYMBRAVO.

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

This Medication Guide summarizes the most important information about SYMBRAVO. If you would like more information, talk to your healthcare provider. You can ask your healthcare provider or pharmacist for information about SYMBRAVO that is written for health professionals. For more information, go to www.SYMBRAVO.com.

## How should I store SYMBRAVO?

- Store SYMBRAVO at room temperature between 68°F to 77°F (20°C to 25°C).
- Safely throw away medicine that is out of date or no longer needed.
- Keep SYMBRAVO and all medicines out of the reach of children.

## What are the ingredients in SYMBRAVO?

Active ingredients in SYMBRAVO: meloxicam and rizatriptan.

**Inactive ingredients in SYMBRAVO:** colloidal silicon dioxide, crospovidone, magnesium stearate, microcrystalline cellulose, partially hydrolyzed polyvinyl alcohol, polyethylene glycol, povidone, pregelatinized starch, sodium bicarbonate, sulfobutyl-

ether-ß-cyclodextrin sodium, talc, and titanium dioxide.

Distributed by:

Axsome Therapeutics, Inc.,

New York, NY 10007

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For more information about SYMBRAVO, visit SYMBRAVO.com or call 1-800-484-1672.

This Medication Guide has been approved by the U.S. Food and Drug Administration Issued: 1/2025

SYM-USMG-001.000-20250130

Principal Display Panel - NDC: 81968-020-09 - 9-count Bottle

NDC 81968-020-09

Rx only 9 Tablets For oral use

**SYMBRAVO®** 

(meloxicam and rizatriptan) tablets

20 mg/10 mg

Attention: Dispense with the accompanying Medication Guide to each patient.



Principal Display Panel - NDC: 81968-020-03 - 3-count Physician Sample

Rx Only NDC 81968-020-03

**SYMBRAVO®** 

(meloxicam and rizatriptan) tablets

20 mg/10 mg

**Patient Sample** 

3 Tablets For oral use

Not or Sale.

Dispense with Medication Guide



CONTENTS: Each tablet contains: NDC 81968-020-03 20 mg meloxicam and 10 mg rizatriptan (equivalent to 14.5 mg rizatriptan benzoate).

**RECOMMENDED DOSAGE:**See Prescribing Information.

STORAGE: Dispense and store in original bottle at 20°C to 25°C (68°F to 77°F), excursions permitted to 15°C to 30°C (59°F to 86°F).

Do not use if seal is broken.

Rx only 3 Tablets For oral use

## SYMBRA\('O'

(meloxicam and rizatriptan) tablets 20 mg/10 mg

Patient Sample. Not for Sale. Attention: Dispense the accompanying Medication Guide to each patient.

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#### axsome.

Manufactured for: Axsome Therap New York, NY 10007

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EXP: YYYY-MMM LOT: XXXXX

## **SYMBRAVO**

meloxicam, rizatriptan tablet

## **Product Information**

HUMAN PRESCRIPTION DRUG NDC:81968-020 **Product Type** Item Code (Source)

**Route of Administration** ORAL

## **Active Ingredient/Active Moiety**

**Ingredient Name Basis of Strength Strength** MELOXICAM (UNII: VG2QF83CGL) (MELOXICAM - UNII:VG2QF83CGL) MELOXICAM 20 mg RIZATRIPTAN BENZOATE (UNII: WR978S7QHH) (RIZATRIPTAN - UNII:51086HBW8G) RIZATRIPTAN 10 mg

#### **Inactive Ingredients**

Ingredient Name	Strength
BETADEX SULFOBUTYL ETHER SODIUM (UNII: 2PP9364507)	
STARCH, CORN (UNII: O8232NY3SJ)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
POVIDONE (UNII: FZ989GH94E)	
CROSPOVIDONE (UNII: 2S7830E561)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

SODIUM BICARBONATE (UNII: 8MDF5V39QO)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
POLYVINYL ALCOHOL, UNSPECIFIED (UNII: 532B59J990)	
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3MJQ0SDWIA)	

Product Characteristics				
Color	white	Score	no score	
Shape	CAPSULE	Size	17mm	
Flavor		Imprint Code	MXRZ;20;10	
Contains				

P	Packaging			
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:81968-020- 09	9 in 1 BOTTLE; Type 0: Not a Combination Product	05/19/2025	
2	NDC:81968-020- 03	1 in 1 CARTON	05/19/2025	
2		3 in 1 BOTTLE; Type 0: Not a Combination Product		

Marketing Information				
Marketing Category				
NDA	NDA215431	05/19/2025		

## **Labeler -** Axsome Therapeutics, Inc. (033333109)

## **Registrant -** Axsome Therapeutics, Inc. (033333109)

Establishment					
Name	Address	ID/FEI	<b>Business Operations</b>		
Patheon (part of Thermo Fisher Scientific)		205475333	manufacture(81968-020)		

Establishment						
Name	Address	ID/FEI	Business Operations			
Derivados Químicos S.A.U.		464100098	api manufacture(81968-020)			

Establishment					
Name	Address	ID/FEI	Business Operations		
SMS Pharmaceuticals Limited		650460954	api manufacture(81968-020)		

Revised: 2/2025 Axsome Therapeutics, Inc.