#### HIGHLIGHTS OF PRESCRIBING INFORMATION

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

 $\mathbf{VIMOVO}^{\textcircled{\$}}$  (naproxen and esome prazole magnesium) delayed release tablets, for oral use

Initial US Approval: 2010

# WARNING: CARDIOVASCULAR AND GASTROINTESTINAL RISKS

See full prescribing information for complete boxed warning Cardiovascular Risk

- Naproxen, a component of VIMOVO, may cause an increased risk of serious cardiovascular thrombotic events, myocardial infarction, and stroke, which can be fatal. This risk may increase with duration of use. Patients with cardiovascular disease or risk factors for cardiovascular disease may be at greater risk. (5.1)
- VIMOVO is contraindicated for the treatment of peri-operative pain in the setting of coronary artery bypass graft (CABG) surgery. (4, 5.1) Gastrointestinal Risk
- NSAIDs, including naproxen, a component of VIMOVO, cause an increased risk of serious gastrointestinal 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 are at greater risk for serious gastrointestinal (GI) events. (5.4)

RECENT MAJOR CHANGES	
Warnings and Precautions, Renal Effects (5.6)	03/2014
Warnings and Precautions, Acute Interstitial Nephritis (5.16)	12/2014
Warnings and Precautions, Cyanocobalamin (vitamin B-12)	
Deficiency (5.17)	12/2014
INDICATIONS AND USAGE	
Relief of signs and symptoms of osteoarthritis, rheumatoid arthankylosing spondylitis and to decrease the risk of developing g patients at risk of developing NSAID associated gastric ulcers.	astric ulcers in

One tablet twice daily. Use the lowest effective dose. Should be avoided in moderate/severe renal insufficiency or in severe hepatic insufficiency. Consider dose reduction in mild/moderate hepatic insufficiency (2)

# -----DOSAGE FORMS AND STRENGTHS-----

Delayed release tablets: 375~mg/20~mg or 500~mg/20~mg of naproxen and esomeprazole magnesium (3)

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

- Known hypersensitivity to any component of VIMOVO or substituted benzimidazoles (4)
- History of asthma, urticaria, or other allergic-type reactions after taking aspirin or other NSAIDs (4, 5.8, 5.9, 5.13)
- Use during the peri-operative period in the setting of coronary artery bypass graft (CABG) surgery (4, 5.1)

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

- Serious and potentially fatal cardiovascular (CV) thrombotic events, myocardial infarction, and stroke. Patients with known CV disease/risk factors may be at greater risk (5.1)
- New onset or worsening of pre-existing hypertension. Blood pressure should be monitored closely during treatment with VIMOVO (5.2, 7.1, 7.6)
- Congestive heart failure and edema. VIMOVO should be used with caution in patients with fluid retention or heart failure (5.3)
- Serious gastrointestinal (GI) adverse events, which can be fatal. The risk is greater in patients with a prior history of ulcer disease or GI bleeding, and in patients at high risk for GI events, especially the elderly. VIMOVO should be used with caution in these patients (5.4, 8.5)
- Symptomatic response to esomeprazole does not preclude the presence of gastric malignancy (5.4)
- Atrophic gastritis has been noted on biopsy with long-term omeprazole therapy (5.4)
- Treatment should be withdrawn when active and clinically significant bleeding from any source occurs (5.5)
- Renal papillary necrosis and other renal injury with long-term use. Use VIMOVO with caution in the elderly, those with impaired renal function, hypovolemia, salt depletion, heart failure, liver dysfunction, and those taking

diuretics, ACE-inhibitors or angiotensin II receptor antagonists. Acute interstitial nephritis has been observed in patients taking PPIs. Not recommended for patients with moderate or severe renal impairment (2, 5.6, 5.7, 5.16, 7.1, 7.6, 8.7)

- Anaphylactic reactions. Do not use VIMOVO in patients with the aspirin triad (5.8)
- Serious skin adverse reactions such as exfoliative dermatitis, Stevens-Johnson syndrome, and toxic epidermal necrolysis, which can be fatal and can occur without warning. Discontinue VIMOVO at first appearance of skin rash or any other sign of hypersensitivity (5.9)
- Elevated liver enzymes and, rarely, severe hepatic reactions. Discontinue use immediately if abnormal liver enzymes persist or worsen (5.11, 8.6, 12.3)
- Should be avoided in patients with severe hepatic impairment (e.g., Child-Pugh C) (2, 5.11, 8.6, 12.3)
- Cyanocobalamin (vitamin B-12) Deficiency: Daily long-term use (e.g., longer than 3 years) may lead to malabsorption or a deficiency of cyanocobalamin. (5.17)
- Proton pump inhibitor (PPI) therapy may be associated with increased risk of Clostridium difficile associated diarrhea. (5.18)
- Avoid concomitant use of esomeprazole with clopidogrel (5.19)
- Long-term and multiple daily dose PPI therapy is associated with an increased risk for osteoporosis-related fractures of the hip, wrist or spine (5.20)
- Interactions with diagnostic investigations for Neuroendocrine Tumors: Increases in intragastric pH may result in hypergastrinemia, enterochromaffin-like cell hyperplasia, and increased Chromogranin A levels which may interfere with diagnostic investigations for neuroendocrine tumors. (5.22)
- Hypomagnesemia has been reported rarely with prolonged treatment with PPIs (5.23)
- Avoid concomitant use of VIMOVO with St John's Wort or rifampin due to the potential reduction in esomeprazole levels. (5.24, 7.16)
- Fetal toxicity: avoid drug starting at 30 weeks gestation (5.10, 8.1)

#### -----ADVERSE REACTIONS-----

Most common adverse reactions in clinical trials (>5%): erosive gastritis, dyspepsia, gastritis, diarrhea, gastric ulcer, upper abdominal pain, nausea (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Horizon Pharma USA, Inc. at 1-866-479-6742 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

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

- Concomitant use of NSAIDs may reduce the antihypertensive effect of ACE Inhibitors, angiotensin II receptor antagonists, diuretics, and beta-blockers (7.1, 7.6, 7.11)
- As with all NSAIDs caution is advised when cyclosporin is coadministered because of the increased risk of nephrotoxicity. (7.4)
- Tacrolimus: Concomitant administration of esomeprazole, a component of VIMOVO, and tacrolimus may increase the serum levels of tacrolimus. (7.5)
- Concomitant use of NSAIDs increases lithium plasma levels (7.7)
- Methotrexate: VIMOVO may increase serum levels of methotrexate (7.8)
- Concomitant use of VIMOVO with warfarin may result in increased risk of bleeding complications. Monitor for increases in INR and prothrombin time (7.9)
- Esomeprazole inhibits gastric acid secretion and may interfere with the
  absorption of drugs where gastric pH is an important determinant of
  bioavailability (e.g., ketoconazole, iron salts, erlotinib, digoxin, and
  mycophenolate mofetil). Patients treated with VIMOVO and digoxin may
  need to be monitored for increases in digoxin toxicity (7.14)
- Clopidogrel: esome prazole, a component of VIMOVO, decreases exposure to the active metabolite of clopidogrel. (7.16, 12.3)

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

- Hepatic Insufficiency: VIMOVO should be avoided in patients with severe hepatic insufficiency (2, 4, 5.11, 8.6, 12.3)
- Renal Insufficiency: VIMOVO is not recommended in patients with moderate or severe renal insufficiency (2, 5.6, 5.7, 8.7, 12.3)

SEE 17 FOR PATIENT COUNSELING INFORMATION and FDA-Approved Medication Guide

Revised 12/2014

Reference ID: 3675794



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## **FULL PRESCRIBING INFORMATION**

#### Cardiovascular Risk

- Non-Steroidal Anti-inflammatory Drugs (NSAIDs), a component of VIMOVO, may cause an increased risk of serious cardiovascular thrombotic events, myocardial infarction, and stroke, which can be fatal. This risk may increase with duration of use. Patients with cardiovascular disease or risk factors for cardiovascular disease may be at greater risk [see *Warnings and Precautions (5.1)*].
- VIMOVO is contraindicated for the treatment of perioperative pain in the setting of coronary artery bypass graft (CABG) surgery [see *Contraindications* (4), and *Warnings and Precautions* (5.1)].

#### Gastrointestinal Risk

NSAIDs, including naproxen, a component of VIMOVO, cause an increased risk of serious gastrointestinal 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 are at greater risk for serious gastrointestinal events [see *Warnings and Precautions* (5.4)].

#### 1 INDICATIONS AND USAGE

VIMOVO is a combination product that contains naproxen and esomeprazole. It is indicated for the relief of signs and symptoms of osteoarthritis, rheumatoid arthritis and ankylosing spondylitis and to decrease the risk of developing gastric ulcers in patients at risk of developing NSAID-associated gastric ulcers. VIMOVO is not recommended for initial treatment of acute pain because the absorption of naproxen is delayed compared to absorption from other naproxen-containing products. Controlled studies do not extend beyond 6 months.

#### 2 DOSAGE AND ADMINISTRATION

Carefully consider the potential benefits and risks of VIMOVO and other treatment options before deciding to use VIMOVO. Use the lowest effective dose for the shortest duration consistent with individual patient treatment goals. VIMOVO does not allow for administration of a lower daily dose of esomeprazole. If a dose of esomeprazole lower than a total daily dose of 40 mg is more appropriate, a different treatment should be considered.

Rheumatoid Arthritis, Osteoarthritis and Ankylosing Spondylitis
The dosage is one tablet twice daily of VIMOVO 375 mg naproxen and 20 mg of esomeprazole or 500 mg naproxen and 20 mg of esomeprazole.

The tablets are to be swallowed whole with liquid. Do not split, chew, crush or dissolve the tablet. VIMOVO is to be taken at least 30 minutes before meals.

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#### Geriatric Patients

Studies indicate that although total plasma concentration of naproxen is unchanged, the unbound plasma fraction of naproxen is increased in the elderly. Use caution when high doses are required and some adjustment of dosage may be required in elderly patients. As with other drugs used in the elderly use the lowest effective dose [see *Use in Specific Populations (8.5)* and *Clinical Pharmacology (12.3)*].

# Patients With Moderate to Severe Renal Impairment

Naproxen-containing products are not recommended for use in patients with moderate to severe or severe renal impairment (creatinine clearance <30 mL/min) [see *Warnings and Precautions* (5.6, 5.7) and *Use in Specific Populations* (8.7)].

## Hepatic Insufficiency

Monitor patients with mild to moderate hepatic impairment closely and consider a possible dose reduction based on the naproxen component of VIMOVO.

VIMOVO should be avoided in patients with severe hepatic impairment [see Warnings and Precautions (5.11), Use in Specific Populations (8.6) and Clinical Pharmacology (12.3)].

#### **Pediatric Patients**

The safety and efficacy of VIMOVO in children younger than 18 years has not been established. VIMOVO is therefore not recommended for use in children.

### 3 DOSAGE FORMS AND STRENGTHS

Oval, yellow, delayed release tablets for oral administration containing either:

- 375 mg enteric coated naproxen and 20 mg esomeprazole (as magnesium trihydrate) tablets printed with 375/20 in black, or
- 500 mg enteric coated naproxen and 20 mg esomeprazole (as magnesium trihydrate) tablets printed with 500/20 in black.

#### 4 CONTRAINDICATIONS

VIMOVO is contraindicated in patients with known hypersensitivity to naproxen, esomeprazole magnesium, substituted benzimidazoles, or to any of the excipients.

VIMOVO is contraindicated in patients who have experienced asthma, urticaria, or allergic-type reactions after taking aspirin or other NSAIDs. Severe, rarely fatal, anaphylactic-like reactions to NSAIDs have been reported in such patients [see *Warnings and Precautions (5.8, 5.13)*]. VIMOVO is also contraindicated in patients with known hypersensitivity to substituted benzimidazoles or to any component of the formulation including omeprazole. Hypersensitivity reactions to esomeprazole may include anaphylaxis, anaphylactic shock, angioedema, bronchospasm, acute interstitial nephritis, and urticaria [see *Adverse Reactions (6)*].

VIMOVO is contraindicated for the treatment of peri-operative pain in the setting of coronary artery bypass graft (CABG) surgery [see *Warnings and Precautions (5.1)*].

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## 5 WARNINGS AND PRECAUTIONS

# 5.1 Cardiovascular Thrombotic Events

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, myocardial infarction, and stroke, which can be fatal. All NSAIDS, both COX-2 selective and nonselective, may have a similar risk. Patients with known CV disease or risk factors for CV disease may be at greater risk. To minimize the potential risk for an adverse CV event in patients treated with an NSAID, the lowest effective dose should be used for the shortest duration possible. Physicians and patients should remain alert for the development of such events, even in the absence of previous CV symptoms. Patients should be informed about the signs and/or 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.

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 myocardial infarction and stroke [see *Contraindications* (4)].

# 5.2 Hypertension

NSAIDs, including naproxen, a component of VIMOVO, can lead to onset of new hypertension or worsening of pre-existing hypertension, either of which may contribute to the increased incidence of CV events. Patients taking thiazides or loop diuretics may have impaired response to these therapies when taking NSAIDs. NSAIDs should be used with caution in patients with hypertension. Blood pressure (BP) should be monitored closely during the initiation of NSAID treatment and throughout the course of therapy [see *Drug Interactions* (7.1, 7.6)].

# 5.3 Congestive Heart Failure and Edema

Fluid retention, edema, and peripheral edema have been observed in some patients taking NSAIDs and should be used with caution in patients with fluid retention or heart failure.

# 5.4 Gastrointestinal Effects — Risk of Ulceration, Bleeding, and Perforation

NSAIDs, including naproxen, a component of VIMOVO, can cause serious gastrointestinal (GI) adverse events including inflammation, bleeding, ulceration, and perforation of the stomach, small intestine, or large intestine, which can be fatal. While VIMOVO has been shown to significantly decrease the occurrence of gastric ulcers compared to naproxen alone, ulceration and associated complications can still occur.

These serious adverse events can occur at any time, with or without warning symptoms, in patients treated with NSAIDs. Only one in five patients who develop a serious upper GI adverse event on NSAID therapy is symptomatic. Upper GI ulcers, gross bleeding, or perforation caused by NSAIDs occur in approximately 1% of patients treated for 3–6 months, and in about 2–4% of patients treated for one year. These trends continue with longer duration of use, increasing the likelihood of developing a serious GI event at some time during the course of therapy. However, even short-term therapy is not without risk. The utility of periodic laboratory monitoring has not been demonstrated, nor has it been adequately assessed.

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