WARNING

MISOPROSTOL ADMINISTRATION TO WOMEN WHO ARE PREGNANT CAN CAUSE BIRTH DEFECTS ABORTION, OR PREMATURE BIRTH. UTERINE RUPTURE HAS BEEN REPORTED WHEN MISOPROSTOL TABLETS WERE ADMINISTERED IN PREGnant WOMEN TO INDUCE LABOR OR TO INDUCE ABORTION BEYOND THE EIGHTH WEEK OF PREGNANCY (see also PRECAUTIONS and LABOR AND DELIVERY). MISOPROSTOL TABLETS SHOULD NOT BE TAKEN BY PREGNANT WOMEN TO REDUCE THE RISK OF ULCERS INDUCED BY NONSTEROIDAL ANTI-INFLAMMATORY DRUGS (NSAIDs) (see CONTRAINDICATIONS, WARNINGS, and PRECAUTIONS).

PATIENTS MUST BE ADVISED OF THE ABORTIFACIENT PROPERTY AND WARNED NOT TO GIVE THE DRUG TO OTHERS.

Misoprostol Tablets should not be used for reducing the risk of NSAID-induced ulcers in women of childbearing potential unless the patient is at high risk of complications from gastric ulcers associated with use of the NSAID, or is at high risk of developing gastric ulceration. In such patients, Misoprostol Tablets may be prescribed if the patient

- has had a negative serum pregnancy test within 2 weeks prior to beginning therapy.
- is capable of complying with effective contraceptive measures.
- has received both oral and written warnings of the hazards of Misoprostol Tablets, the risk of possible contraception failure, and the danger to other women of childbearing potential should the drug be taken by mistake.
- will begin Misoprostol Tablets only on the second or third day of the next normal menstrual period.

DESCRIPTION

Misoprostol oral tablets contain either 100 mcg or 200 mcg of misoprostol, a synthetic prostaglandin E1 analog.

Misoprostol contains approximately equal amounts of the two diastereomers presented below with their enantiomers indicated by (+):
Misoprostol is a water-soluble, viscous liquid.
Inactive ingredients of tablets are hydrogenated castor oil, microcrystalline cellulose, and crospovidone.

**CLINICAL PHARMACOLOGY**

**Pharmacokinetics:**

Misoprostol is extensively absorbed, and undergoes rapid de-esterification to its free acid, which is responsible for its clinical activity and, unlike the parent compound, is detectable in plasma. The alpha side chain undergoes beta oxidation and the beta side chain undergoes omega oxidation followed by reduction of the ketone to give prostaglandin F analogs.

In normal volunteers, misoprostol is rapidly absorbed after oral administration with a $T_{\text{max}}$ of misoprostol acid of 12 ± 3 minutes and a terminal half-life of 20 to 40 minutes.

There is high variability of plasma levels of misoprostol acid between and within studies but mean values after single doses show a linear relationship with dose over the range of 200 to 400 mcg. No accumulation of misoprostol acid was noted in multiple dose studies; plasma steady state was achieved within two days.

Maximum plasma concentrations of misoprostol acid are diminished when the dose is taken with food and total availability of misoprostol acid is reduced by use of concomitant antacid. Clinical trials were conducted with concomitant antacid, however, so this effect does not appear to be clinically important.

<table>
<thead>
<tr>
<th>Mean ± SD</th>
<th>$C_{\text{max}}$ (pg/ml)</th>
<th>$\text{AUC}_{\text{0-4}}$ (pg·hr/ml)</th>
<th>$T_{\text{max}}$ (min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fasting</td>
<td>811 ± 317</td>
<td>417 ± 135</td>
<td>14 ± 8</td>
</tr>
<tr>
<td>With Antacid</td>
<td>689 ± 315</td>
<td>349 ± 108</td>
<td>20 ± 14</td>
</tr>
<tr>
<td>With High Fat Breakfast</td>
<td>303 ± 176 *</td>
<td>373 ± 111</td>
<td>64 ± 79 *</td>
</tr>
</tbody>
</table>

* Comparisons with fasting results statistically significant, p<0.05.

After oral administration of radiolabeled misoprostol, about 80% of detected radioactivity appears in
Pharmacokinetic studies in patients with varying degrees of renal impairment showed an approximate doubling of T₁/₂, Cmax, and AUC compared to normals, but no clear correlation between the degree of impairment and AUC. In subjects over 64 years of age, the AUC for misoprostol acid is increased. No routine dosage adjustment is recommended in older patients or patients with renal impairment, but dosage may need to be reduced if the usual dose is not tolerated.

Drug interaction studies between misoprostol and several nonsteroidal anti-inflammatory drugs showed no effect on the kinetics of ibuprofen or diclofenac, and a 20% decrease in aspirin AUC, not thought to be clinically significant.

Pharmacokinetic studies also showed a lack of drug interaction with antipyrine and propranolol when these drugs were given with misoprostol. Misoprostol given for 1 week had no effect on the steady state pharmacokinetics of diazepam when the two drugs were administered 2 hours apart.

The serum protein binding of misoprostol acid is less than 90% and is concentration-independent in the therapeutic range.

After a single oral dose of misoprostol to nursing mothers, misoprostol acid was excreted in breast milk. The maximum concentration of misoprostol acid in expressed breast milk was achieved within 1 hour after dosing and was 7.6 pg/mL (CV 37%) and 20.9 pg/ml (CV 62%) after single 200 mg and 600 mg misoprostol administration, respectively. The misoprostol acid concentrations in breast milk declined to < 1 pg/ml at 5 hours post-dose.

**Pharmacodynamics:**

Misoprostol has both antisecretory (inhibiting gastric acid secretion) and (in animals) mucosal protective properties. NSAIDs inhibit prostaglandin synthesis, and a deficiency of prostaglandins within the gastric mucosa may lead to diminishing bicarbonate and mucus secretion and may contribute to the mucosal damage caused by these agents. Misoprostol can increase bicarbonate and mucus production, but in man this has been shown at doses 200 mcg and above that are also antisecretory. It is therefore not possible to tell whether the ability of misoprostol to reduce the risk of gastric ulcer is the result of its antisecretory effect, its mucosal protective effect, or both.

*In vitro* studies on canine parietal cells using tritiated misoprostol acid as the ligand have led to the identification and characterization of specific prostaglandin receptors. Receptor binding is saturable, reversible, and stereospecific. The sites have a high affinity for misoprostol, for its acid metabolite, and for other E type prostaglandins, but not for F or I prostaglandins and other unrelated compounds, such as histamine or cimetidine. Receptor-site affinity for misoprostol correlates well with an indirect index of antisecretory activity. It is likely that these specific receptors allow misoprostol taken with food to be effective topically, despite the lower serum concentrations attained.

Misoprostol produces a moderate decrease in pepsin concentration during basal conditions, but not during histamine stimulation. It has no significant effect on fasting or postprandial gastrin nor on intrinsic factor output.

**Effects on gastric acid secretion:**

Misoprostol, over the range of 50 to 200 mcg, inhibits basal and nocturnal gastric acid secretion, and acid secretion in response to a variety of stimuli, including meals, histamine, pentagastrin, and coffee. Activity is apparent 30 minutes after oral administration and persists for at least 3 hours. In general, the effects of 50 mcg were modest and shorter lived, and only the 200-mcg dose had substantial effects on nocturnal secretion or on histamine and meal-stimulated secretion.

**Uterine effects:**

Misoprostol Tablets has been shown to produce uterine contractions that may endanger pregnancy. (See boxed **WARNINGS.**
Other pharmacologic effects:
Misoprostol Tablets does not produce clinically significant effects on serum levels of prolactin, gonadotropins, thyroid-stimulating hormone, growth hormone, thyroxine, cortisol, gastrointestinal hormones (somatostatin, gastrin, vasoactive intestinal polypeptide, and motilin), creatinine, or uric acid. Gastric emptying, immunologic competence, platelet aggregation, pulmonary function, or the cardiovascular system are not modified by recommended doses of Misoprostol Tablets.

Clinical studies:
In a series of small short-term (about 1 week) placebo-controlled studies in healthy human volunteers, doses of misoprostol were evaluated for their ability to reduce the risk of NSAID-induced mucosal injury. Studies of 200 mcg q.i.d. of misoprostol with tolmetin and naproxen, and of 100 and 200 mcg q.i.d. with ibuprofen, all showed reduction of the rate of significant endoscopic injury from about 70 to 75% on placebo to 10 to 30% on misoprostol. Doses of 25 to 200 mcg q.i.d. reduced aspirin-induced mucosal injury and bleeding.

Reducing the risk of gastric ulcers caused by nonsteroidal anti-inflammatory drugs (NSAIDs):
Two 12-week, randomized, double-blind trials in osteoarthritic patients who had gastrointestinal symptoms but no ulcer on endoscopy while taking an NSAID compared the ability of 200 mcg of Misoprostol Tablets, 100 mcg of Misoprostol Tablets, and placebo to reduce the risk of gastric ulcer (GU) formation. Patients were approximately equally divided between ibuprofen, piroxicam, and naproxen, and continued this treatment throughout the 12 weeks. The 200-mcg dose caused a marked, statistically significant reduction in gastric ulcers in both studies. The lower dose was somewhat less effective, with a significant result in only one of the studies.

Reduction of Risk of Gastric Ulcers Induced by Ibuprofen, Piroxicam, or Naproxen [No. of patients with ulcer(s) (%)]

<table>
<thead>
<tr>
<th>Therapy Duration</th>
<th>Therapy</th>
<th>4 weeks</th>
<th>8 weeks</th>
<th>12 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Study No. 1</strong></td>
<td>Misoprostol Tablets 200 mcg q.i.d. (n=74)</td>
<td>1 (1.4)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Misoprostol Tablets 100 mcg q.i.d. (n=77)</td>
<td>3 (3.9)</td>
<td>1 (1.3)</td>
<td>1 (1.3)</td>
</tr>
<tr>
<td></td>
<td>Placebo (n=76)</td>
<td>11 (14.5)</td>
<td>4 (5.3)</td>
<td>4 (5.3)</td>
</tr>
<tr>
<td><strong>Study No. 2</strong></td>
<td>Misoprostol Tablets 200 mcg q.i.d. (n=65)</td>
<td>1 (1.5)</td>
<td>1 (1.5)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Misoprostol Tablets 100 mcg q.i.d. (n=66)</td>
<td>2 (3.0)</td>
<td>2 (3.0)</td>
<td>1 (1.5)</td>
</tr>
<tr>
<td></td>
<td>Placebo (n=62)</td>
<td>6 (9.7)</td>
<td>2 (3.2)</td>
<td>3 (4.8)</td>
</tr>
<tr>
<td><strong>Studies No. 1 &amp; No. 2†</strong></td>
<td>Misoprostol Tablets 200 mcg q.i.d. (n=139)</td>
<td>2 (1.4)</td>
<td>1 (0.7)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Misoprostol Tablets 100 mcg q.i.d. (n=143)</td>
<td>5 (3.5)</td>
<td>3 (2.1)</td>
<td>2 (1.4)</td>
</tr>
<tr>
<td></td>
<td>Placebo (n=138)</td>
<td>17 (12.3)</td>
<td>6 (4.3)</td>
<td>7 (5.1)</td>
</tr>
</tbody>
</table>

* Statistically significantly different from placebo at the 5% level.
† Combined data from Study No. 1 and Study No. 2.
In these trials there were no significant differences between Misoprostol Tablets and placebo in relief of day or night abdominal pain. No effect of Misoprostol Tablets in reducing the risk of duodenal ulcers was demonstrated, but relatively few duodenal lesions were seen.

In another clinical trial, 239 patients receiving aspirin 650 to 1300 mg q.i.d. for rheumatoid arthritis who had endoscopic evidence of duodenal and/or gastric inflammation were randomized to misoprostol 200 mcg q.i.d. or placebo for 8 weeks while continuing to receive aspirin. The study evaluated the possible interference of Misoprostol Tablets on the efficacy of aspirin in these patients with rheumatoid arthritis by analyzing joint tenderness, joint swelling, physician’s clinical assessment, patient’s assessment, change in ARA classification, change in handgrip strength, change in duration of morning stiffness, patient’s assessment of pain at rest, movement, interference with daily activity, and ESR. Misoprostol Tablets did not interfere with the efficacy of aspirin in these patients with rheumatoid arthritis.

INDICATIONS AND USAGE
Misoprostol is indicated for reducing the risk of NSAID (nonsteroidal anti-inflammatory drugs, including aspirin)–induced gastric ulcers in patients at high risk of complications from gastric ulcer, e.g., the elderly and patients with concomitant debilitating disease, as well as patients at high risk of developing gastric ulceration, such as patients with a history of ulcer. Misoprostol Tablet has not been shown to reduce the risk of duodenal ulcers in patients taking NSAIDs. Misoprostol Tablets should be taken for the duration of NSAID therapy. Misoprostol Tablets has been shown to reduce the risk of gastric ulcers in controlled studies of 3 months’ duration. It had no effect, compared to placebo, on gastrointestinal pain or discomfort associated with NSAID use.

CONTRAINDICATIONS
See boxed WARNINGS.

Misoprostol Tablets should not be taken by pregnant women to reduce the risk of ulcers induced by nonsteroidal anti-inflammatory drugs (NSAIDs).

Misoprostol Tablets should not be taken by anyone with a history of allergy to prostaglandins.

WARNINGS
See boxed WARNINGS.

For hospital use only if misoprostol were to be used for cervical ripening, induction of labor, or for the treatment of serious post-partum hemorrhage, which are outside of the approved indication.

PRECAUTIONS
Caution should be employed when administering misoprostol to patients with pre-existing cardiovascular disease.

Information for Patients:
Women of childbearing potential using Misoprostol Tablets to decrease the risk of NSAID-induced ulcers should be told that they must not be pregnant when Misoprostol Tablets therapy is initiated, and that they must use an effective contraception method while taking Misoprostol Tablets.

See boxed WARNINGS.

Misoprostol Tablets is intended for administration along with nonsteroidal anti-inflammatory drugs (NSAIDs), including aspirin, to decrease the chance of developing an NSAID-induced gastric ulcer.
Misoprostol Tablets should be taken only according to the directions given by a physician.
If the patient has questions about or problems with Misoprostol Tablets, the physician should be contacted promptly.

THE PATIENT SHOULD NOT GIVE MISOPROSTOL TABLETS TO ANYONE ELSE. Misoprostol Tablets has been prescribed for the patient’s specific condition, may not be the correct treatment for another person, and may be dangerous to the other person if she were to become pregnant.

The Misoprostol Tablets package the patient receives from the pharmacist will include a leaflet containing patient information. The patient should read the leaflet before taking Misoprostol Tablets and each time the prescription is renewed because the leaflet may have been revised.

Keep Misoprostol Tablets out of the reach of children.

SPECIAL NOTE FOR WOMEN: Misoprostol Tablets may cause birth defects, abortion (sometimes incomplete), or premature labor, if given to pregnant women.

Misoprostol Tablets is available only as a unit-of-use package that includes a leaflet containing patient information. See Patient Information at the end of this labeling.

Drug Interactions:
SeeClinical Pharmacology. Misoprostol Tablets has not been shown to interfere with the beneficial effects of aspirin on signs and symptoms of rheumatoid arthritis. Misoprostol Tablets does not exert clinically significant effects on the absorption, blood levels, and antiplatelet effects of therapeutic doses of aspirin. Misoprostol Tablets has no clinically significant effect on the kinetics of diclofenac or ibuprofen.

Prostaglandins such as Misoprostol Tablets may augment the activity of oxytocic agents, especially when given less than 4 hours prior to initiating oxytocin treatment. Concomitant use is not recommended.

Animal toxicology:
A reversible increase in the number of normal surface gastric epithelial cells occurred in the dog, rat, and mouse. No such increase has been observed in humans administered Misoprostol Tablets for up to 1 year.

An apparent response of the female mouse to Misoprostol Tablets in long-term studies at 100 to 1000 times the human dose was hyperostosis, mainly of the medulla of sternebrae. Hyperostosis did not occur in long-term studies in the dog and rat and has not been seen in humans treated with Misoprostol Tablets.

Carcinogenesis, Mutagenesis, Impairment of Fertility:
There was no evidence of an effect of Misoprostol Tablets on tumor occurrence or incidence in rats receiving daily doses up to 150 times the human dose for 24 months. Similarly, there was no effect of Misoprostol Tablets on tumor occurrence or incidence in mice receiving daily doses up to 1000 times the human dose for 21 months. The mutagenic potential of Misoprostol Tablets was tested in several in vitro assays, all of which were negative.

Misoprostol, when administered to breeding male and female rats at doses 6.25 times to 625 times the maximum recommended human therapeutic dose, produced dose-related pre- and post-implantation losses and a significant decrease in the number of live pups born at the highest dose. These findings suggest the possibility of a general adverse effect on fertility in males and females.

Pregnancy: Pregnancy Category X:
Teratogenic effects:
See boxed WARNINGS. Congenital anomalies sometimes associated with fetal death have been
reported subsequent to the unsuccessful use of misoprostol as an abortifacient, but the drug’s teratogenic mechanism has not been demonstrated. Several reports in the literature associate the use of misoprostol during the first trimester of pregnancy with skull defects, cranial nerve palsies, facial malformations, and limb defects.

Misoprostol Tablets is not fetotoxic or teratogenic in rats and rabbits at doses 625 and 63 times the human dose, respectively.

Nonteratogenic effects:

See boxed WARNINGS. Misoprostol Tablets may endanger pregnancy (may cause abortion) and thereby cause harm to the fetus when administered to a pregnant woman. Misoprostol Tablets may produce uterine contractions, uterine bleeding, and expulsion of the products of conception. Abortions caused by Misoprostol Tablets may be incomplete. If a woman is or becomes pregnant while taking this drug to reduce the risk of NSAID-induced ulcers, the drug should be discontinued and the patient apprised of the potential hazard to the fetus.

Labor and delivery:

Misoprostol Tablets can induce or augment uterine contractions. Vaginal administration of Misoprostol Tablets, outside of its approved indication, has been used as a cervical ripening agent, for the induction of labor and for treatment of serious postpartum hemorrhage in the presence of uterine atony. A major adverse effect of the obstetrical use of Misoprostol Tablets is uterine tachysystole which may progress to uterine tetany with marked impairment of uteroplacental blood flow, uterine rupture (requiring surgical repair, hysterectomy, and/or salpingo-oophorectomy), or amniotic fluid embolism and lead to adverse fetal heart changes. Uterine activity and fetal status should be monitored by trained obstetrical personnel in a hospital setting.

The risk of uterine rupture increases with advancing gestational ages and with prior uterine surgery, including Cesarean delivery. Grand multiparity also appears to be a risk factor for uterine rupture.

The use of Misoprostol Tablets outside of its approved indication may also be associated with meconium passage, meconium staining of amniotic fluid, and Cesarean delivery. Maternal shock, maternal death, fetal bradycardia, and fetal death have also been reported with the use of misoprostol.

Misoprostol Tablets should not be used in the third trimester in women with a history of Cesarean section or major uterine surgery because of an increased risk of uterine rupture. Misoprostol Tablets should not be used in cases where uterotonic drugs are generally contraindicated or where hyperstimulation of the uterus is considered inappropriate, such as cephalopelvic disproportion, grand multiparity, hypertonic or hyperactive uterine patterns, or fetal distress where delivery is not imminent, or when surgical intervention is more appropriate.

The effect of Misoprostol Tablets on later growth, development, and functional maturation of the child when Misoprostol Tablets is used for cervical ripening or induction of labor has not been established. Information on Misoprostol Tablet’s effect on the need for forceps delivery or other intervention is unknown.

Nursing mothers:

Misoprostol is rapidly metabolized in the mother to misoprostol acid, which is biologically active and is excreted in breast milk. There are no published reports of adverse effects of misoprostol in breast-feeding infants of mothers taking misoprostol. Caution should be exercised when misoprostol is administered to a nursing woman.

Pediatric use:

Safety and effectiveness of Misoprostol Tablets in pediatric patients have not been established.
ADVERSE REACTIONS

The following have been reported as adverse events in subjects receiving Misoprostol Tablets:

**Gastrointestinal:** In subjects receiving Misoprostol Tablets 400 or 800 mcg daily in clinical trials, the most frequent gastrointestinal adverse events were diarrhea and abdominal pain. The incidence of diarrhea at 800 mcg in controlled trials in patients on NSAIDs ranged from 14 to 40% and in all studies (over 5,000 patients) averaged 13%. Abdominal pain occurred in 13 to 20% of patients in NSAID trials and about 7% in all studies, but there was no consistent difference from placebo.

Diarrhea was dose related and usually developed early in the course of therapy (after 13 days), usually was self-limiting (often resolving after 8 days), but sometimes required discontinuation of Misoprostol Tablets (2% of the patients). Rare instances of profound diarrhea leading to severe dehydration have been reported. Patients with an underlying condition such as inflammatory bowel disease, or those in whom dehydration, were it to occur, would be dangerous, should be monitored carefully if Misoprostol Tablets is prescribed. The incidence of diarrhea can be minimized by administering after meals and at bedtime, and by avoiding coadministration of Misoprostol Tablets with magnesium-containing antacids.

**Gynecological:** Women who received Misoprostol Tablets during clinical trials reported the following gynecological disorders: spotting (0.7%), cramps (0.6%), hypermenorrhea (0.5%), menstrual disorder (0.3%) and dysmenorrhea (0.1%). Postmenopausal vaginal bleeding may be related to Misoprostol Tablets administration. If it occurs, diagnostic workup should be undertaken to rule out gynecological pathology. (See boxed **WARNINGS**.)

**Elderly:** There were no significant differences in the safety profile of Misoprostol Tablets in approximately 500 ulcer patients who were 65 years of age or older compared with younger patients.

Additional adverse events which were reported are categorized as follows:

**Incidence greater than 1%:** In clinical trials, the following adverse reactions were reported by more than 1% of the subjects receiving Misoprostol Tablets and may be causally related to the drug: nausea (3.2%), flatulence (2.9%), headache (2.4%), dyspepsia (2.0%), vomiting (1.3%), and constipation (1.1%). However, there were no significant differences between the incidences of these events for Misoprostol Tablets and placebo.

**Causal relationship unknown:** The following adverse events were infrequently reported. Causal relationships between Misoprostol Tablets and these events have not been established but cannot be excluded:

*Body as a whole:* aches/pains, asthenia, fatigue, fever, chills, rigors, weight changes.

*Skin:* rash, dermatitis, alopecia, pallor, breast pain.

*Special senses:* abnormal taste, abnormal vision, conjunctivitis, deafness, tinnitus, earache.

*Respiratory:* upper respiratory tract infection, bronchitis, bronchospasm, dyspnea, pneumonia, epistaxis.

*Cardiovascular:* chest pain, edema, diaphoresis, hypotension, hypertension, arrhythmia, phlebitis, increased cardiac enzymes, syncope, myocardial infarction (some fatal), thromboembolic events (e.g., pulmonary embolism, arterial thrombosis, and CVA).

*Gastrointestinal:* GI bleeding, GI inflammation/infection, rectal disorder, abnormal hepatobiliary function, gingivitis, reflux, dysphagia, amylase increase.

*Hypersensitivity:* anaphylactic reaction

*Metabolic:* glycosuria, gout, increased nitrogen, increased alkaline phosphatase.

*Genitourinary:* polyuria, dysuria, hematuria, urinary tract infection.

*Nervous system/Psychiatric:* anxiety, change in appetite, depression, drowsiness, dizziness, thirst, impotence, loss of libido, sweating increase, neuropathy, neurosis, confusion.
Musculoskeletal: arthralgia, myalgia, muscle cramps, stiffness, back pain.

Blood/Coagulation: anemia, abnormal differential, thrombocytopenia, purpura, ESR increased.

OVERDOSAGE

The toxic dose of Misoprostol Tablets in humans has not been determined. Cumulative total daily doses of 1600 mcg have been tolerated, with only symptoms of gastrointestinal discomfort being reported. In animals, the acute toxic effects are diarrhea, gastrointestinal lesions, focal cardiac necrosis, hepatic necrosis, renal tubular necrosis, testicular atrophy, respiratory difficulties, and depression of the central nervous system. Clinical signs that may indicate an overdose are sedation, tremor, convulsions, dyspnea, abdominal pain, diarrhea, fever, palpitations, hypotension, or bradycardia. Symptoms should be treated with supportive therapy.

It is not known if misoprostol acid is dialyzable. However, because misoprostol is metabolized like a fatty acid, it is unlikely that dialysis would be appropriate treatment for overdosage.

DOSAGE AND ADMINISTRATION

The recommended adult oral dose of Misoprostol Tablets for reducing the risk of NSAID-induced gastric ulcers is 200 mcg four times daily with food. If this dose cannot be tolerated, a dose of 100 mcg can be used. (See Clinical Pharmacology: Clinical studies.) Misoprostol Tablets should be taken for the duration of NSAID therapy as prescribed by the physician. Misoprostol Tablets should be taken with a meal, and the last dose of the day should be at bedtime.

Renal impairment:

Adjustment of the dosing schedule in renally impaired patients is not routinely needed, but dosage can be reduced if the 200-mcg dose is not tolerated. (See Clinical Pharmacology.)

HOW SUPPLIED

Misoprostol Tablets 100-mcg tablets are round, white flat-faced beveled edge tablets, debossed “160” on one side and “n” on other side.
Unit dose packages of 100 (10 x 10) NDC 68084-040-01

Misoprostol Tablets 200-mcg tablets are round, white flat-faced beveled edge bisected tablets, debossed “161” above the bisect and “n” below the bisect and plain on the other side.
Unit dose packages of 100 (10 x10) NDC 68084-041-01

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

FOR YOUR PROTECTION: Do not use if blister is torn or broken.

PACKAGING INFORMATION

American Health Packaging unit dose blisters (see How Supplied section) contain drug product from GAVIS Pharmaceuticals, LLC as follows:
(100 mcg / 100 UD) NDC 68084-040-01 packaged from NDC 43386-160
(200 mcg / 100 UD) NDC 68084-041-01 packaged from NDC 43386-161

Distributed by:
American Health Packaging
Columbus, OH 43217
8204001/0217

PATIENT INFORMATION
Read this leaflet before taking Misoprostol Tablets and each time your prescription is renewed, because the leaflet may be changed.

Misoprostol Tablets is being prescribed by your doctor to decrease the chance of getting stomach ulcers related to the arthritis/pain medication that you take.

Do not take Misoprostol Tablets to reduce the risk of NSAID-induced ulcers if you are pregnant. (See boxed **WARNINGS**.) Misoprostol Tablets can cause abortion (sometimes incomplete which could lead to dangerous bleeding and require hospitalization and surgery), premature birth, or birth defects. It is also important to avoid pregnancy while taking this medication and for at least one month or through one menstrual cycle after you stop taking it. Misoprostol Tablets has been reported to cause the uterus to rupture (tear) when given after the eighth week of pregnancy. Rupture (tearing) of the uterus can result in severe bleeding, hysterectomy, and/or maternal or fetal death.

If you become pregnant during Misoprostol Tablets therapy, stop taking Misoprostol Tablets and contact your physician immediately. Remember that even if you are on a means of birth control it is still possible to become pregnant. Should this occur, stop taking Misoprostol Tablets and contact your physician immediately.

Misoprostol Tablets may cause diarrhea, abdominal cramping, and/or nausea in some people. In most cases these problems develop during the first few weeks of therapy and stop after about a week. You can minimize possible diarrhea by making sure you take Misoprostol Tablets with food.

Because these side effects are usually mild to moderate and usually go away in a matter of days, most patients can continue to take Misoprostol Tablets. If you have prolonged difficulty (more than 8 days), or if you have severe diarrhea, cramping and/or nausea, call your doctor.

Take Misoprostol Tablets only according to the directions given by your physician.

Do not give Misoprostol Tablets to anyone else. It has been prescribed for your specific condition, may not be the correct treatment for another person, and would be dangerous if the other person were pregnant.

This information sheet does not cover all possible side effects of Misoprostol Tablets. This patient information leaflet does not address the side effects of your arthritis/pain medication. See your doctor if you have questions.

Keep out of reach of children.

Rx only

Distributed by: **American Health Packaging**
Columbus, OH 43217
8204001/0217

**Package/Label Display Panel – Carton – 100 mcg**
Misoprostol Tablets
100 mcg
100 Tablets (10 x 10) Rx Only

PHARMACIST: Dispense with the accompanying Patient Information Leaflet to each patient.

CONTRAINDICATION / WARNING: Do not take if you are pregnant and do not become pregnant while taking this medicine because it can cause miscarriage or other serious complications. Not for use in women of childbearing potential unless at high risk from NSAID therapy. See enclosed literature.
Each Tablet Contains:
Misoprostol................................................................. 100 mcg

Usual Dosage: See package insert for full prescribing information.

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature]. Store in a dry area.

Keep this and all drugs out of reach of children.

FOR YOUR PROTECTION: Do not use if blister is torn or broken.

The drug product contained in this package is from NDC # 43386-160, Lupin Pharmaceuticals, Inc.

Packaged and Distributed by:
American Health Packaging
Columbus, Ohio 43217

104001
0204001/0419

Package/Label Display Panel – Blister – 100 mcg

Misoprostol
Tablet
100 mcg

Misoprostol
Tablet
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CONTRAINDICATION / WARNING: Do not take if you are pregnant and do not become pregnant while taking this medicine because it can cause miscarriage or other serious complications. Not for use in women of childbearing potential unless at high risk from NSAID therapy. See enclosed literature.

Each Tablet Contains:
Misoprostol ................................................................. 200 mcg

Usual Dosage: See package insert for full prescribing information.
Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature]. Store in a dry area.
Keep this and all drugs out of reach of children.

FOR YOUR PROTECTION: Do not use if blister is torn or broken.
The drug product contained in this package is from NDC # 43386-161, Lupin Pharmaceuticals, Inc.
Packaged and Distributed by:
American Health Packaging
Columbus, Ohio 43217

NDC 68084- 041-01
Misoprostol Tablets
200 mcg
100 Tablets (10 x 10) Rx Only

PHARMACIST: Dispense with the accompanying Patient Information Leaflet to each patient.

CONTRAINDICATION / WARNING: Do not take if you are pregnant and do not become pregnant while taking this medicine because it can cause miscarriage or other serious complications. Not for use in women of
childbearing potential unless at high risk from NSAID therapy. See enclosed literature.

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Columbus, Ohio 43217

004101
0204101/0419

Package/Label Display Panel – Blister – 200 mcg
MISOPROSTOL
misoprostol tablet

Product Information

Product Type: HUMAN PRESCRIPTION DRUG  Item Code (Source): NDC:68084-040(NDC:43386-160)
Route of Administration: ORAL

Active Ingredient/Active Moiety

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>MISOPROSTOL (UNII: 0E43V0BB57) (MISOPROSTOL - UNII:0E43V0BB57)</td>
<td>MISOPROSTOL</td>
<td>100 ug</td>
</tr>
</tbody>
</table>

Inactive Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROGENATED CASTOR OIL (UNII: ZF94AP8MEY)</td>
<td></td>
</tr>
<tr>
<td>MICROCRYSTALLINE CELLULOSE (UNII: OPIR32D6IU)</td>
<td></td>
</tr>
<tr>
<td>CROSPovidone (15 MPA.S AT 5%) (UNII: 68401960MK)</td>
<td></td>
</tr>
</tbody>
</table>

Product Characteristics

<table>
<thead>
<tr>
<th>Color</th>
<th>Score</th>
<th>Shape</th>
<th>Size</th>
<th>Flavor</th>
<th>Imprint Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>white</td>
<td>no score</td>
<td>ROUND</td>
<td>6mm</td>
<td></td>
<td>160;n</td>
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</table>

Contains

Packaging

<table>
<thead>
<tr>
<th>#</th>
<th>Item Code</th>
<th>Package Description</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NDC:68084-040-01</td>
<td>100 in 1 BOX, UNIT-DOSE</td>
<td>07/08/2013</td>
<td>12/31/2021</td>
</tr>
<tr>
<td>1</td>
<td>NDC:68084-040-11</td>
<td>1 in 1 BLISTER PACK; Type 0: Not a Combination Product</td>
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</table>
### Marketing Information

<table>
<thead>
<tr>
<th>Marketing Category</th>
<th>Application Number or Monograph Citation</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
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<tbody>
<tr>
<td>ANDA</td>
<td>ANDA091667</td>
<td>07/08/2013</td>
<td>12/31/2021</td>
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### MISOPROSTOL

misoprostol tablet

### Product Information

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Item Code (Source)</th>
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<tbody>
<tr>
<td>HUMAN PRESCRIPTION DRUG</td>
<td>NDC:68084-041(NDC:43386-161)</td>
</tr>
<tr>
<td>Route of Administration</td>
<td>ORAL</td>
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</table>

### Active Ingredient/Active Moiety

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<th>Ingredient Name</th>
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<tr>
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### Inactive Ingredients
### Ingredient Name

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<tr>
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</tbody>
</table>

### Product Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Color</td>
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<tr>
<td>Score</td>
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<tr>
<td>Shape</td>
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<tr>
<td>Size</td>
<td>9mm</td>
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<tr>
<td>Flavor</td>
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</tr>
<tr>
<td>Imprint Code</td>
<td>161;n</td>
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<tr>
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</tr>
</tbody>
</table>
**Labeler** - American Health Packaging (929561009)

### Establishment

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>ID/FEI</th>
<th>Business Operations</th>
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</thead>
<tbody>
<tr>
<td>American Health Packaging</td>
<td>929561009</td>
<td>repack(68084-040, 68084-041)</td>
<td></td>
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</tbody>
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Revised: 1/2021