

# MESALAMINE- mesalamine suppository

## Bryant Ranch Prepack

### HIGHLIGHTS OF PRESCRIBING INFORMATION

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

**MESALAMINE suppositories, for rectal use**

**Initial U.S. Approval: 1987**

### INDICATIONS AND USAGE

Mesalamine suppositories are an aminosalicylate indicated in adults for the treatment of mildly to moderately active ulcerative proctitis. (1)

### DOSAGE AND ADMINISTRATION

#### Dosage

The recommended adult dosage is 1000 mg administered rectally once daily at bedtime for 3 to 6 weeks. Safety and effectiveness beyond 6 weeks have not been established.(2)

#### Administration Instructions:

- Evaluate renal function prior to initiation of mesalamine suppositories and periodically while on therapy (2.1, 5.1)
- Do not cut or break the suppository.
- Retain the suppository for one to three hours or longer, if possible.
- Mesalamine suppositories will cause staining of direct contact surfaces, including but not limited to fabrics, flooring, painted surfaces, marble, granite, vinyl, and enamel. Keep MESALAMINE SUPPOSITORIES away from these surfaces to prevent staining.

### DOSAGE FORMS AND STRENGTHS

Suppository: 1000 mg (3)

### CONTRAINDICATIONS

Known or suspected hypersensitivity to salicylates or aminosalicylates or to any or to any ingredients in the formulation. (4, 5.3)

### WARNINGS AND PRECAUTIONS

- Renal Impairment: Evaluate the risks and benefits in patients with known renal impairment or taking nephrotoxic drugs; monitor renal function (5.1, 7.1, 8.6)
- Mesalamine-Induced Acute Intolerance Syndrome: Symptoms may be difficult to distinguish from an exacerbation of ulcerative colitis; monitor for worsening symptoms; discontinue treatment if acute intolerance syndrome is suspected. (5.2)
- Hypersensitivity Reactions, including Myocarditis and Pericarditis: Evaluate patients immediately and discontinue if a hypersensitivity reaction is suspected. (5.3)
- Hepatic Failure: Evaluate the risks and benefits in patients with known liver impairment. (5.4)
- Interaction with Laboratory Test for Urinary Normetanephrine: Spuriously elevated test results may occur with liquid chromatography with electrochemical detection in patients receiving MESALAMINE SUPPOSITORIES; use alternative, selective assay for normetanephrine. (5.5, 7.3)

### ADVERSE REACTIONS

The most common adverse reactions ( $\geq 1\%$ ) are: dizziness, rectal pain, fever, rash, acne and colitis. (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Rising Pharmaceuticals, Inc. at 1-866-562-4597 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

### DRUG INTERACTIONS

- Nephrotoxic Agents including NSAIDs: Increased risk of nephrotoxicity; monitor for changes in renal function and mesalamine-related adverse reactions. (7.1)
- Azathioprine or 6-Mercaptopurine: Increased risk of blood disorders; monitor complete blood cell counts and platelet counts. (7.2)

### USE IN SPECIFIC POPULATIONS

- Geriatric Patients: Increased risk of blood dyscrasias; monitor complete blood cell counts and platelet counts. (8.5)

See 17 for FDA-approved patient labeling.

Revised: 5/2021

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

Mesalamine suppositories are indicated in adults for the treatment of mildly to moderately active ulcerative proctitis.

### **2 DOSAGE AND ADMINISTRATION**

#### Dosage

The recommended dosage of mesalamine suppositories in adults is 1000 mg administered rectally once daily at bedtime for 3 to 6 weeks depending on symptoms and sigmoidoscopic findings. Safety and effectiveness of mesalamine suppositories beyond 6 weeks have not been established.

#### Administration Instructions:

- Evaluate renal function prior to initiation of mesalamine suppositories therapy and periodically while on therapy.
- Do not cut or break the suppository.
- Retain the suppository for one to three hours or longer, if possible.
- If a dose of mesalamine suppositories is missed, administer as soon as possible, unless it is almost time for next dose. Do not use two mesalamine suppositories at the

same time to make up for a missed dose.

- Mesalamine suppositories will cause staining of direct contact surfaces, including but not limited to fabrics, flooring, painted surfaces, marble, granite, vinyl, and enamel. Keep mesalamine suppositories away from these surfaces to prevent staining.

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

Mesalamine suppositories: 1000 mg mesalamine in a bullet shaped, light tan to grey suppository.

### **4 CONTRAINDICATIONS**

Mesalamine suppositories are contraindicated in patients with known or suspected hypersensitivity to salicylates or aminosalicylates or to any ingredients in the suppository vehicle [see *Warnings and Precautions*(5.3), *Adverse Reactions* (6.2), and *Description* (11)].

### **5 WARNINGS AND PRECAUTIONS**

#### **5.1 Renal Impairment**

Renal impairment, including minimal change nephropathy, acute and chronic interstitial nephritis, and renal failure, has been reported in patients given products such as mesalamine suppositories that contain mesalamine or are converted to mesalamine [see *Adverse Reactions* (6.2)].

Evaluate renal function prior to initiation of mesalamine suppositories therapy and periodically while on therapy.

Evaluate the risks and benefits of using mesalamine suppositories in patients with known renal impairment or a history of renal disease or taking concomitant nephrotoxic drugs. In animal studies, the kidney was the principal organ for toxicity [see *Drug Interactions* (7.1), *Use in Specific Populations* (8.6) and *Nonclinical Toxicology* (13.2)].

#### **5.2 Mesalamine-Induced Acute Intolerance Syndrome**

Mesalamine has been associated with an acute intolerance syndrome that may be difficult to distinguish from an exacerbation of ulcerative colitis. Although the exact frequency of occurrence has not been determined, it has occurred in 3% of patients in controlled clinical trials of mesalamine or sulfasalazine. Symptoms include cramping, acute abdominal pain and bloody diarrhea, and sometimes fever, headache, and rash. Monitor patients for worsening of these symptoms while on treatment. If acute intolerance syndrome is suspected, promptly discontinue treatment with mesalamine suppositories.

#### **5.3 Hypersensitivity Reactions**

Hypersensitivity reactions have been reported in patients taking sulfasalazine. Some patients may have a similar reaction to mesalamine suppositories or to other compounds that contain or are converted to mesalamine.

As with sulfasalazine, mesalamine-induced hypersensitivity reactions may present as internal organ involvement, including myocarditis, pericarditis, nephritis, hepatitis, pneumonitis and hematologic abnormalities. Evaluate patients immediately if signs or symptoms of a hypersensitivity reaction are present. Discontinue mesalamine suppositories if an alternative etiology for the signs and symptoms cannot be established.

5.4 Hepatic Failure

There have been reports of hepatic failure in patients with pre-existing liver disease who have been administered other products containing mesalamine. Evaluate the risks and benefits of using mesalamine suppositories in patients with known liver impairment.

5.5 Interaction with Laboratory Test for Urinary Normetanephrine

Use of mesalamine may lead to spuriously elevated test results when measuring urinary normetanephrine by liquid chromatography with electrochemical detection, because of the similarity in the chromatograms of normetanephrine and mesalamine's main metabolite, N-acetylamino salicylic acid.  
Consider an alternative, selective assay for normetanephrine.

6 ADVERSE REACTIONS

The most serious adverse reactions seen in mesalamine suppositories clinical trials or with other products that contain or are metabolized to mesalamine are:

- Renal Impairment [see Warnings and Precautions (5.1)]
- Mesalamine-Induced Acute Intolerance Syndrome [see Warnings and Precautions (5.2)]
- Hypersensitivity Reactions [see Warnings and Precautions (5.3)]
- Hepatic Failure [see Warnings and Precautions (5.4)]

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 practice. The most common adverse reactions in adult patients with mildly to moderately active ulcerative proctitis in double-blind, placebo-controlled trials are summarized in the Table 1 below.

**Table 1: Adverse Reactions Occurring In More Than 1% of Mesalamine Suppository Treated Patients (Comparison to Placebo)**

Symptom	Mesalamine (n = 177)		Placebo (n = 84)	
	N	%	N	%
Dizziness	5	3	2	2.4
Rectal Pain	3	1.8	0	0
Fever	2	1.2	0	0
Rash	2	1.2	0	0
Acne	2	1.2	0	0
Colitis	2	1.2	0	0

In a multicenter, open-label, randomized, parallel group study in 99 patients comparing the mesalamine 1000 mg suppository administered nightly to that of the mesalamine 500 mg suppository twice daily. The most common adverse reactions in both groups were headache (14%), flatulence (5%), abdominal pain (5%), diarrhea (3%), and nausea (3%). Three (3) patients discontinued medication because of an adverse reaction; one of these adverse reactions (headache) was deemed possibly related to study medication. The recommended dosage of mesalamine suppositories is 1000 mg administered rectally once daily at bedtime [see Dosage and Administration (2)].

## 6.2 Postmarketing Experience

In addition to the adverse reactions reported above in clinical trials involving mesalamine suppositories, the adverse reactions listed below have been identified during post-approval use of mesalamine suppositories and other mesalamine-containing products. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

- *Body as a Whole*: drug fever, fatigue, lupus-like syndrome, medication residue
- *Cardiac Disorders*: myocarditis, pericarditis, pericardial effusion [see *Warnings and Precautions* (5.3)]
- *Endocrine*: Nephrogenic diabetes insipidus
- *Eye disorders*: eye swelling
- *Gastrointestinal Disorders*: abdominal cramps, abdominal distension, anal pruritus, anorectal discomfort, constipation, feces discolored, flatulence, frequent bowel movements, gastrointestinal bleeding, mucus stools, nausea, painful defecation, pancreatitis, proctalgia, rectal discharge, rectal tenesmus, stomach discomfort, vomiting
- *Hepatic Disorders*: cholestatic jaundice, hepatitis, jaundice, Kawasaki-like syndrome including changes in liver enzymes, liver necrosis, liver failure
- *Hematologic Disorders*: agranulocytosis, aplastic anemia, thrombocytopenia
- *Neurological/Psychiatric Disorders*: Guillain-Barre syndrome, peripheral neuropathy, transverse myelitis, intracranial hypertension
- *Renal Disorders*: interstitial nephritis, renal failure, minimal change nephropathy [see *Warnings and Precautions* (5.1)]
- *Respiratory, Thoracic and Mediastinal Disorders*: hypersensitivity pneumonitis (including allergic alveolitis, eosinophilic pneumonitis, interstitial pneumonitis)
- *Skin and Subcutaneous Tissue Disorder*: alopecia, erythema, erythema nodosum, pruritus, psoriasis, pyoderma gangrenosum, urticaria
- *Urogenital*: reversible oligospermia

## 7 DRUG INTERACTIONS

### 7.1 Nephrotoxic Agents, Including Non-Steroidal Anti-Inflammatory Drugs

The concurrent use of mesalamine with known nephrotoxic agents, including nonsteroidal anti-inflammatory drugs (NSAIDs) may increase the risk of nephrotoxicity. Monitor patients taking nephrotoxic drugs for changes in renal function and mesalamine-related adverse reactions [see *Warnings and Precautions* (5.1)].

### 7.2 Azathioprine or 6-Mercaptopurine

The concurrent use of mesalamine with azathioprine or 6-mercaptopurine may increase the risk for blood disorders. If concomitant use of mesalamine suppositories and azathioprine or 6-mercaptopurine cannot be avoided, monitor blood tests, including complete blood cell counts and platelet counts.

### 7.3 Urinary Normetanephrine Measurements

Use of mesalamine may lead to spuriously elevated test results when measuring urinary normetanephrine by liquid chromatography with electrochemical detection, because of the similarity in the chromatograms of normetanephrine and mesalamine's main metabolite, N-acetylamino salicylic acid. Consider an alternative, selective assay for normetanephrine [see *Warnings and Precautions* (5.5)].

## 8 USE IN SPECIFIC POPULATIONS

## 8.1 Pregnancy

### Risk Summary

Limited published data on mesalamine use in pregnant women are insufficient to inform a drug-associated risk. No evidence of teratogenicity was observed in rats or rabbits when treated during gestation with orally administered mesalamine at doses greater than the recommended human intra-rectal dose [see Data].

The estimated background risk of major birth defects and miscarriage for the indicated populations is unknown. Adverse outcomes in pregnancy occur regardless of the health of the mother or the use of medications. 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.

### Data

#### *Animal Data*

Reproduction studies have been performed in rats at oral doses up to 320 mg/kg/day (about 1.7 times the recommended human intra-rectal dose of mesalamine suppositories, based on body surface area) and in rabbits at oral doses up to 495 mg/kg/day (about 5.4 times the recommended human intra-rectal dose of mesalamine suppositories, based on body surface area) following administration during the period of organogenesis, and have revealed no evidence of impaired fertility or harm to the fetus due to mesalamine.

## 8.2 Lactation

### Risk Summary

Mesalamine and its N-acetyl metabolite are present in human milk in undetectable to small amounts [see Data]. There are limited reports of diarrhea in breastfed infants. There is no information on the effects of the drug on milk production. The lack of clinical data during lactation precludes a clear determination of the risk of mesalamine suppositories to an infant during lactation; therefore, the developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for mesalamine suppositories and any potential adverse effects on the breastfed child from mesalamine suppositories or from the underlying maternal conditions.

### Clinical Considerations

Monitor breastfed infants for diarrhea.

### Data

In published lactation studies, maternal mesalamine doses from various oral and rectal formulations and products ranged from 500 mg to 3 g daily. The concentration of mesalamine in milk ranged from non-detectable to 0.11 mg/L. The concentration of the N-acetyl-5-aminosalicylic acid metabolite ranged from 5 to 18.1 mg/L. Based on these concentrations, estimated infant daily dosages for an exclusively breastfed infant are 0 to 0.017 mg/kg/day of mesalamine and 0.75 to 2.72 mg/kg/day of N-acetyl-5-aminosalicylic acid.

## 8.4 Pediatric Use

The safety and effectiveness of mesalamine suppositories in pediatric patients for the treatment of mildly to moderately active ulcerative proctitis have not been established.

**Information describing a clinical study in which efficacy was not**

**demonstrated in pediatric patients ages 5 to 17 years is approved for Forest Laboratories, LLC's CANASA (mesalamine) rectal suppositories. However, due to Forest Laboratories, LLC's marketing exclusivity rights, this drug product is not labeled with that pediatric information.**

## 8.5 Geriatric Use

Clinical trials of mesalamine suppositories did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients. Systemic exposures are increased in elderly subjects [See *Clinical Pharmacology* (12.3)]. Reports from uncontrolled clinical studies and postmarketing reporting systems suggested a higher incidence of blood dyscrasias (i.e., agranulocytosis, neutropenia and pancytopenia) in patients receiving mesalamine-containing products such as mesalamine suppositories who were 65 years or older compared to younger patients. Monitor complete blood cell counts and platelet counts in elderly patients during treatment with mesalamine suppositories. In general, the greater frequency of decreased hepatic, renal, or cardiac function, and of concurrent disease or other drug therapy in elderly patients should be considered when prescribing mesalamine suppositories [see *Use in Specific Populations* (8.6)].

## 8.6 Renal Impairment

Mesalamine is known to be substantially excreted by the kidney, and the risk of adverse reactions may be greater in patients with impaired renal function. Evaluate renal function in all patients prior to initiation and periodically while on mesalamine suppositories therapy. Monitor patients with known renal impairment or history of renal disease or taking nephrotoxic drugs for decreased renal function and mesalamine-related adverse reactions [see *Warnings and Precautions* (5.1), *Drug Interactions* (7.1) and *Adverse Reactions* (6.2)].

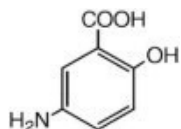
## 10 OVERDOSAGE

There have been no documented reports of serious toxicity in man resulting from massive overdosing with mesalamine suppository. Under ordinary circumstances, mesalamine absorption from the colon is limited.

## 11 DESCRIPTION

The active ingredient in mesalamine suppositories 1000 mg for rectal use is mesalamine, also known as mesalazine or 5-aminosalicylic acid (5-ASA). Chemically, mesalamine is 5-amino-2-hydroxybenzoic acid, and is classified as an anti-inflammatory drug. Each mesalamine suppository contains 1000 mg of mesalamine (USP) in a base of Hard Fat, NF.

The empirical formula is  $C_7H_7NO_3$ , representing a molecular weight of 153.14. The structural formula is:



## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

The mechanism of action of mesalamine is not fully understood, but appears to be topical rather than systemic. Although the pathology of inflammatory bowel disease is uncertain, both prostaglandins and leukotrienes have been implicated as mediators of mucosal injury and inflammation.

### 12.3 Pharmacokinetics

#### Absorption

Mesalamine (5-ASA) administered as a rectal suppository is variably absorbed. In patients with ulcerative colitis treated with mesalamine 500 mg rectal suppositories, administered once every eight hours for six days, the mean mesalamine peak plasma concentration ( $C_{max}$ ) was 353 ng/mL (CV=55%) following the initial dose and 361 ng/mL (CV=67%) at steady state. The mean minimum steady state plasma concentration ( $C_{min}$ ) was 89 ng/mL (CV=89%). Absorbed mesalamine does not accumulate in the plasma.

#### Distribution

Mesalamine administered as a rectal suppository distributes in rectal tissue to some extent.

#### Elimination

In patients with ulcerative proctitis treated with mesalamine 500 mg as a rectal suppository every 8 hours for 6 days, the mean elimination half-life was 5 hours (CV=73%) for 5-ASA and 5 hours (CV=63%) for N-acetyl-5-ASA, the active metabolite, following the initial dose. At steady state, the mean elimination half-life was 7 hours for both 5-ASA and N-acetyl-5-ASA (CV=102% for 5-ASA and 82% for N-acetyl-5-ASA).

#### *Metabolism*

The absorbed mesalamine is extensively metabolized, mainly to N-acetyl-5-ASA in the liver and in the gut mucosal wall. In patients with ulcerative colitis treated with one mesalamine 500 mg rectal suppository every eight hours for six days, the peak concentration ( $C_{max}$ ) of N-acetyl-5-ASA ranged from 467 ng/mL to 1399 ng/mL following the initial dose and from 193 ng/mL to 1304 ng/mL at steady state.

#### *Excretion*

Mesalamine is eliminated from plasma mainly by urinary excretion, predominantly as N-acetyl-5-ASA. In patients with ulcerative proctitis treated with mesalamine 500 mg as a rectal suppository every 8 hours for 6 days, 12% or less of the dose was eliminated in urine as unchanged 5-ASA and 8% to 77% was eliminated as N-acetyl-5-ASA following the initial dose. At steady state, 11% or less of the dose was eliminated in the urine as unchanged 5-ASA and 3% to 35% was eliminated as N-acetyl-5-ASA.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Mesalamine caused no increase in the incidence of neoplastic lesions over controls in a two-year study of Wistar rats fed up to 320 mg/kg/day of mesalamine admixed with diet (about 1.7 times the recommended human intra-rectal dose of mesalamine



suppositories, based on body surface area).

Mesalamine was not mutagenic in the Ames test, the mouse lymphoma cell (TK<sup>±</sup>) forward mutation test, or the mouse micronucleus test.

No effects on fertility or reproductive performance of the male and female rats were observed at oral mesalamine doses up to 320 mg/kg/day (about 1.7 times the recommended human intra-rectal dose of mesalamine suppositories, based on body surface area).

### **13.2 Animal Toxicology and/or Pharmacology**

Toxicology studies of mesalamine were conducted in rats, mice, rabbits and dogs, and the kidney was the main target organ of toxicity. In rats, adverse renal effects were observed at a single oral dose of 600 mg/kg (about 3.2 times the recommended human intra-rectal dose of mesalamine suppositories, based on body surface area) and at intravenous doses of >214 mg/kg (about 1.2 times the recommended human intra-rectal dose of mesalamine suppositories, based on body surface area). In a 13-week oral gavage toxicity study in rats, papillary necrosis and/or multifocal tubular injury were observed in males receiving 160 mg/kg (about 0.86 times the recommended human intra-rectal dose of mesalamine suppositories, based on body surface area) and in both males and females at 640 mg/kg (about 3.5 times the recommended human intra-rectal dose of mesalamine suppositories, based on body surface area). In a combined 52-week toxicity and 127-week carcinogenicity study in rats, degeneration of the kidneys and hyalinization of basement membranes and Bowman's capsule were observed at oral doses of 100 mg/kg/day (about 0.54 times the recommended human intra-rectal dose of mesalamine suppositories, based on body surface area) and above. In a 14-day rectal toxicity study of mesalamine suppositories in rabbits, intra-rectal doses up to 800 mg/kg (about 8.6 times the recommended human intra-rectal dose of mesalamine suppositories, based on body surface area) was not associated with any adverse effects. In a six-month oral toxicity study in dogs, doses of 80 mg/kg (about 1.4 times the recommended human intra-rectal dose of mesalamine suppositories, based on body surface area) and higher caused renal pathology similar to that described for the rat. In a rectal toxicity study of mesalamine suppositories in dogs, a dose of 166.6 mg/kg (about 3 times the recommended human intra-rectal dose of mesalamine suppositories, based on body surface area) produced chronic nephritis and pyelitis. In the 12-month eye toxicity study in dogs, keratoconjunctivitis sicca (KCS) occurred at oral doses of 40 mg/kg (about 0.72 times the recommended human intra-rectal dose of mesalamine suppositories, based on body surface area) and above.

## **14 CLINICAL STUDIES**

Two double-blind, placebo-controlled, multicenter trials of mesalamine suppositories were conducted in North America in adult patients with mildly to moderately active ulcerative proctitis. The regimen in Study 1 was a 500 mg mesalamine suppository administered rectally three times daily and in Study 2 was a 500 mg mesalamine suppository administered rectally twice daily. In both trials, patients had an average extent of proctitis (upper disease boundary) of approximately 10 cm and approximately 80% of patients had multiple prior episodes of proctitis. A total of 173 patients were evaluated (Study 1, N=79; Study 2, N=94), of which 89 patients received mesalamine, and 84 patients received placebo. The mean age of patients was 39 years (range 17 to 73 years), 60% were female, and 97% were white.

The primary measures of efficacy were clinical disease activity index (DAI) and histologic evaluations in both trials. The DAI is a composite index reflecting rectal bleeding, stool frequency, mucosal appearance at endoscopy, and a physician's global assessment of disease. Patients were evaluated clinically and sigmoidoscopically after 3 and 6 weeks of treatment.

Compared to placebo, mesalamine suppositories were statistically ( $p<0.01$ ) superior to placebo in both trials with respect to improvement in stool frequency, rectal bleeding,

mucosal appearance, disease severity, and overall disease activity after 3 and 6 weeks of treatment. The effectiveness of mesalamine suppositories was statistically significant irrespective of sex, extent of proctitis, duration of current episode, or duration of disease.

An additional multicenter, open-label, randomized, parallel group study in 99 patients diagnosed with mildly to moderately ulcerative proctitis compared 1000 mg mesalamine suppositories administered rectally once daily at bedtime (N=35) to 500 mg mesalamine suppository administered rectally twice daily, in the morning and at bedtime (N=46), for 6 weeks.

The primary measures of efficacy included the clinical disease activity index (DAI) and histologic evaluations. Patients were evaluated clinically and sigmoidoscopically at 3 and 6 weeks of treatment.

The efficacy at 6 weeks was not different between the treatment groups. Both were effective in the treatment of ulcerative proctitis and resulted in a significant decrease at 6 weeks in DAI: in the mesalamine 500 mg twice daily group, the mean DAI value decreased from 6.6 to 1.6, and in the 1000 mg at bedtime group, the mean DAI value decreased from 6.2 to 1.3, which represents a decrease of greater than 75% in both groups. After 6 weeks of treatment, a DAI score of less than 3 was achieved in 78% of patients in the mesalamine 500 mg twice daily group and 86% of patients in the mesalamine suppositories 1000 mg once daily group. The recommended dosage of mesalamine suppositories is 1000 mg administered rectally once daily at bedtime [see *Dosage and Administration* (2)].

## **16 HOW SUPPLIED/STORAGE AND HANDLING**

Mesalamine suppositories 1000 mg for rectal administration are available as bullet shaped, light tan to grey suppositories containing 1000 mg mesalamine supplied in boxes of 30 plastic wrapped suppositories (NDC: 63629-2397-1).

Store below 25°C (77°F), may be refrigerated. Keep away from direct heat, light or humidity.

## **17 PATIENT COUNSELING INFORMATION**

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

Administration

Advise patients:

- Do not cut or break the suppository.
- Retain the suppository for one to three hours or longer, if possible.
- If a dose of mesalamine suppositories is missed, administer as soon as possible, unless it is almost time for next dose. Do not use two mesalamine suppositories at the same time to make up for a missed dose.
- Mesalamine suppositories will cause staining of direct contact surfaces, including but not limited to fabrics, flooring, painted surfaces, marble, granite, vinyl, and enamel. Keep mesalamine suppositories away from these surfaces to prevent staining.

### Renal Impairment

Inform patients that mesalamine suppositories may decrease their renal function, especially if they have known renal impairment or are taking nephrotoxic drugs, including NSAIDs, and periodic monitoring of renal function will be performed while they are on therapy. Advise patients to complete all blood tests ordered by their healthcare provider [see *Warnings and Precautions* (5.1), *Drug Interactions* (7.1)].

### Mesalamine-Induced Acute Intolerance Syndrome and Other Hypersensitivity Reactions

Inform patients of the signs and symptoms of hypersensitivity reactions. Instruct

patients to stop taking mesalamine suppositories and report to their healthcare provider if they experience new or worsening symptoms Acute Intolerance Syndrome (cramping, abdominal pain, bloody diarrhea, fever, headache, and rash) or other symptoms suggestive of mesalamine-induced hypersensitivity [ see *Warnings and Precautions* (5.2,5.3)].

### Hepatic Failure

Inform patients with known liver disease of the signs and symptoms of worsening liver function and advise them to report to their healthcare provider if they experience such signs or symptoms [see *Warnings and Precautions* (5.4)].

### Blood Disorders

Inform elderly patients and those taking azathioprine or 6-mercaptopurine of the risk for blood disorders and the need for periodic monitoring of complete blood cell counts and platelet counts while on therapy. Advise patients to complete all blood tests ordered by their healthcare provider [see *Drug Interactions* (7.2), *Use in Specific Populations* (8.5)].

### **Distributed by:**

Rising Pharmaceuticals, Inc.  
Saddle Brook, NJ 07663

### **Manufactured by:**

Halo Pharmaceuticals, Inc.  
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## **PATIENT INFORMATION**

### **MESALAMINE (me SAL a meen) suppositories, for rectal use**

#### **What are mesalamine suppositories?**

Mesalamine suppositories are a prescription medicine used to treat active ulcerative proctitis (ulcerative rectal colitis).

**It is not known if mesalamine suppositories are safe and effective in children.**

#### **Who should not use mesalamine suppositories?**

#### **Do not use mesalamine suppositories if you are:**

- allergic to medicines that contain salicylates, including aspirin.
- allergic to mesalamine or any of the ingredients in mesalamine. See the end of this leaflet for a complete list of ingredients in mesalamine suppositories.

Ask your doctor if you are not sure if your medicine is listed above.

#### **Before using mesalamine suppositories, tell your doctor if you:**

- have a history of allergic reaction to the medicine sulfasalazine (Azulfidine)
- have kidney problems
- have ever had inflammation of the sac around your heart (pericarditis).
- have liver problems
- have any other medical conditions
- are pregnant or plan to become pregnant. It is not known if mesalamine suppositories can harm your unborn baby.
- are breastfeeding or plan to breastfeed. Mesalamine can pass into your breast milk. Talk to your doctor about the best way to feed your baby if you use mesalamine suppositories.

**Tell your doctor about all the medicines you take**, including prescription and over-the-counter medicines, vitamins and herbal supplements.

Using mesalamine suppositories with certain other medicines may affect each other. Using mesalamine suppositories with other medicines can cause serious side effects. Especially tell your doctor if you take nonsteroidal anti-inflammatory drugs (NSAIDs), or medicines that contain azathioprine or 6-mercaptopurine. Taking mesalamine suppositories with NSAIDs may cause kidney problems. Taking mesalamine suppositories with azathioprine or 6-mercaptopurine may cause blood problems. Your doctor may do certain tests during treatment with mesalamine suppositories. Know the medicines you take. Keep a list of them to show your doctor and pharmacist when you get a new medicine.

### **How should I use mesalamine suppositories?**

- Use mesalamine suppositories exactly as prescribed by your doctor. Your doctor will tell you how long to continue using mesalamine suppositories.
- Mesalamine suppositories come as a suppository that you insert into your rectum.
- **Do not** cut or break the suppository.
- Use mesalamine suppositories 1 time each day at bedtime, for 3 to 6 weeks. It is not known if mesalamine suppositories are safe and effective for use for longer than 6 weeks.
- After you insert mesalamine suppositories into your rectum, try to keep (retain) the suppository in your rectum for 1 to 3 hours or longer if possible.
- If you miss a dose of mesalamine suppositories, take it as soon as you remember. If it is almost time for your next dose, skip the missed dose. Take the next dose at your regular time. Do not take 2 doses at the same time.
- Mesalamine suppositories can stain surfaces including clothing and other fabrics, flooring, painted surfaces, marble, granite, vinyl and enamel. Keep mesalamine suppositories away from these surfaces to prevent staining.

### **What are the possible side effects of mesalamine suppositories?**

#### **Mesalamine suppositories may cause serious side effects, including:**

- **Kidney problems.** Your doctor will do certain tests before you start using mesalamine suppositories and during your treatment with mesalamine suppositories.
- **Acute Intolerance Syndrome or Other Allergic Reactions.** Some people who use mesalamine suppositories can have allergic type reactions, including "Acute Intolerance Syndrome." Other allergic reactions can cause heart problems including an inflammation of the sac around the heart (pericarditis), blood problems, and problems with other organs in the body including the kidneys, liver and lungs. These problems usually happen in people who have had an allergic reaction to medicines containing sulfasalazine. Stop using mesalamine suppositories and tell your doctor right away if you get any of these symptoms:

- o cramps
- o stomach (abdominal) pain
- o bloody diarrhea
- o chest pain
- o decrease in the amount of urine
- o fever
- o headache
- o rash
- o shortness of breath
- o fatigue

- **Liver problems.** This can happen in people who have a history of liver problems and have taken other medicines that contain mesalamine. Tell your doctor right away if you get any of these symptoms while using mesalamine suppositories:

- o yellowing of your eyes
- o itchy skin
- o feeling very tired
- o flu-like symptoms
- o nausea or vomiting

#### **The most common side effects of mesalamine suppositories include:**

- o dizziness
- o acne
- o inflammation of the large intestine (colitis)

- o rectal pain
- o fever
- o rash

These are not all of the possible side effects of mesalamine suppositories.

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

**How should I store mesalamine suppositories?**

- Store mesalamine suppositories at room temperature below 77°F (25°C).
- Mesalamine suppositories may be refrigerated.
- Keep mesalamine suppositories away from direct heat, light, or humidity.

**Keep mesalamine suppositories and all medicines out of the reach of children.**

**General information about the safe and effective use of mesalamine suppositories.**

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

You can ask your doctor or pharmacist for information about mesalamine suppositories that is written for health professionals.

**What are the ingredients in mesalamine suppositories?**

**Active ingredients:** Mesalamine

**Inactive ingredients:** Hard Fat base

**Distributed by:**

Rising Pharmaceuticals, Inc.

Saddle Brook, NJ 07663

**Manufactured by:**

Halo Pharmaceuticals, Inc.

Whippany, NJ 07981

This Patient Information has been approved by the U.S. Food and Drug Administration

Revised: 02/2019

**Mesalamine 1000 mg Suppository, #30**



Each rectal suppository contains:  
Mesalamine, USP 1000 mg Inactive  
ingredient: Hard Fat

Keep this and all medication out of the  
reach of children.

Store at 25°C (77°F), may be refrigerated.

Keep away from direct heat, light or  
humidity.

For Rectal Use Only.

NDC 63629-2397-1

**Mesalamine  
Suppositories, USP**

**1000 mg**



Relabeled by:  
Bryant Ranch Prepack, Inc.  
Burbank, CA 91504 USA

Rx only

**30 Rectal Suppositories**

Manufactured by:  
Halo Pharmaceutical Inc.



**MESALAMINE**

mesalamine suppository

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:63629-2397(NDC:64980-282)	
Route of Administration	RECTAL			
Active Ingredient/Active Moiety				
Ingredient Name		Basis of Strength	Strength	
MESALAMINE (UNII: 4Q81I59GXC) (MESALAMINE - UNII:4Q81I59GXC)		MESALAMINE	1000 mg	
Inactive Ingredients				
Ingredient Name		Strength		
HARD FAT (UNII: 8334LX7S21)				
Product Characteristics				
Color	YELLOW (Light Tan to Grey)	Score		
Shape	BULLET	Size		
Flavor		Imprint Code		
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:63629-2397-1	5 in 1 CARTON	05/04/2021	
1		6 in 1 PACKAGE; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation		Marketing Start Date	Marketing End Date
ANDA	ANDA207448		06/05/2019	

**Labeler -** Bryant Ranch Prepack (171714327)

**Registrant -** Bryant Ranch Prepack (171714327)

Establishment			
Name	Address	ID/FEI	Business Operations
Bryant Ranch Prepack		171714327	REPACK(63629-2397) , RELABEL(63629-2397)