NITAZOXANIDE- nitazoxanide tablet, film coated Rising Pharma Holdings, Inc.

These highlights do not include all the information needed to use NITAZOXANIDE TABLETS safely and effectively. See full prescribing information for NITAZOXANIDE TABLETS. NITAZOXANIDE tablets, for oral use

Initial U.S. Approval: 2002

----- INDICATIONS AND USAGE

Nitazoxanide tablets are antiprotozoal indicated for the treatment of diarrhea caused by *Giardia lamblia or Cryptosporidium parvum* (1).

Limitations of Use:

Nitazoxanide tablets have not been shown to be effective for the treatment of diarrhea caused by *C. parvum* in HIV-infected or immunodeficient patients (1).

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

Revised: 4/2025

- Nitazoxanide tablets should not be administered to pediatric patient 11 years of age or younger (2.1).
- Dosage for treatment of diarrhea caused by G. lamblia or C. parvum (2.1):

		Duration
Age	Dosage	
12 years and c	older <mark>One nitazoxanide tablet (500 mg nitazoxanide) every 12 hours v</mark>	vith food 3 days
	DOSAGE FORMS AND STRENGTHS	
 Nitazoxanide 	e tablets: 500 mg (3.1)	
	CONTRAINDICATIONS	
Hypersensitivit	y (4.1)	
	ADVERSE REACTIONS	
The most com and nausea (6	mon adverse reactions in ≥2% of patients were abdominal pain, hea	dache, chromaturia
•	 SPECTED ADVERSE REACTIONS, contact Rising Pharma Holo	dings. Inc. at 1-8
•	FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.	gs,c. at = 0
	DRUG INTERACTIONS	
	or binding sites may occur when administered concurrently with other	
	ith narrow therapeutic indices. Monitor for adverse reactions (7).	3 7 1
	USE IN SPECIFIC POPULATIONS	
	nts: Safety and efficacy of ALINIA for Oral Suspension in pediatric pat	ients less than one
	s not been studied (8.4).	
See 17 for P.	ATIENT COUNSELING INFORMATION.	

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

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Diarrhea caused by Giardia lamblia or Cryptosporidium parvum:

Nitazoxanide tablets (patients 12 years and older) are indicated for the treatment of diarrhea caused by *Giardia lamblia* or *Cryptosporidium parvum*.

Limitations of Use

Nitazoxanide tablets have not been shown to be effective for the treatment of diarrhea caused by *Cryptosporidium parvum* in HIV-infected or immunodeficient patients *[see Clinical Studies (14.2)]*.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage and Important Administration Instructions

Important Administration Instructions for Pediatric Patients 11 years of Age or Younger: Nitazoxanide tablets should not be administered to pediatric patients 11 years of age or younger because a single tablet contains a greater amount of nitazoxanide than the recommended dosing in this pediatric age group.

Table 1. Recommended Dosage

		Duration
Age	Dosage	
12 years and	One Nitazoxanide tablet (500 mg nitazoxanide) taken orally	3 days
older	every 12 hours with food	

3 DOSAGE FORMS AND STRENGTHS

3.1 Nitazoxanide Tablets (500 mg)

Round, yellow colored film coated tablet, debossed with "SUVEN" on one side and "500" on the other side. Each tablet contains 500 mg of nitazoxanide.

4 CONTRAINDICATIONS

4.1 Hypersensitivity

Nitazoxanide tablets are contraindicated in patients with a prior hypersensitivity to nitazoxanide or any other ingredient in the formulations.

6 ADVERSE REACTIONS

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 safety of nitazoxanide was evaluated in 2177 HIV-uninfected subjects 12 months of age and older who received nitazoxanide tablets or nitazoxanide for oral suspension at the recommended dose for at least three days. In pooled controlled clinical trials involving 536 HIV-uninfected subjects treated with nitazoxanide tablets or nitazoxanide for oral suspension, the most common adverse reactions were abdominal pain, headache, chromaturia and nausea (≥2%).

Safety data were analyzed separately for 280 HIV-uninfected subjects ≥12 years of age receiving nitazoxanide at the recommended dose for at least three days in 5 placebocontrolled clinical trials and for 256 HIV-uninfected subjects 1 through 11 years of age in 7 controlled clinical trials. There were no differences between the adverse reactions reported for nitazoxanide-treated subjects based upon age.

6.2 Postmarketing Experience

The following adverse reactions have been identified during post approval use of nitazoxanide. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. The following is a list of adverse reactions spontaneously reported with nitazoxanide tablets which were not included in clinical trial listings:

Gastrointestinal disorders: diarrhea, gastroesophageal reflux disease

Nervous System disorders: dizziness

Respiratory, thoracic and mediastinal disorders: dyspnea Skin and subcutaneous tissue disorders: rash, urticaria

7 DRUG INTERACTIONS

7.1 Highly Protein Bound Drugs with Narrow Therapeutic Indices

Tizoxanide (the active metabolite of nitazoxanide) is highly bound to plasma protein (>99.9%). Therefore, monitor for adverse reactions when administering nitazoxanide concurrently with other highly plasma protein-bound drugs with narrow therapeutic indices, as competition for binding sites may occur (e.g., warfarin).

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no data with nitazoxanide in pregnant women to inform a drug-associated risk. No teratogenicity or fetotoxicity was observed in animal reproduction studies with administration of nitazoxanide to pregnant rats and rabbits during organogenesis at exposures 30 and 2 times, respectively, the exposure at the maximum recommended human dose of 500 mg twice daily based on body surface area (BSA).

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

Nitazoxanide was administered orally to pregnant rats at doses of 0, 200, 800 or 3200 mg/kg/day on gestation days 6 to 15. Nitazoxanide produced no evidence of systemic maternal toxicity when administered once daily via oral gavage to pregnant female rats at levels up to 3200 mg/kg/day during the period of organogenesis.

In rabbits, nitazoxanide was administered at doses of 0, 25, 50, or 100 mg/kg/day on gestation days 7 to 20. Oral treatment of pregnant rabbits with nitazoxanide during organogenesis resulted in minimal maternal toxicity and no external fetal anomalies.

8.2 Lactation

Risk Summary

No information regarding the presence of nitazoxanide in human milk, the effects on the breastfed infant, or the effects on milk production is available. The development and health benefits of breastfeeding should be considered along with the mother's clinical need for nitazoxanide and any potential adverse effects on the breastfed infant from nitazoxanide or from the underlying maternal condition.

8.4 Pediatric Use

The safety and efficacy of ALINIA for Oral Suspension for the treatment of diarrhea caused by *G. lamblia* or *C. parvum* in pediatric patients 1 to 11 years of age has been established based on three (3) randomized, controlled studies with 104 pediatric subjects treated with ALINIA for Oral Suspension 100 mg/5 mL. Furthermore, the safety and efficacy of ALINIA for Oral Suspension for the treatment of diarrhea caused by *G. lamblia* or *C. parvum* in pediatric patients 12 to 17 years of age has been established based on two (2) randomized controlled studies with 44 pediatric subjects treated with ALINIA for Oral Suspension 100 mg/5 mL. [see Clinical Studies (14.1)]

The safety and efficacy of nitazoxanide tablets for the treatment of diarrhea caused by *G. lamblia* or *C. parvum* in pediatric patients 12 to 17 years of age has been established based on three (3) randomized controlled studies with 47 pediatric subjects treated with nitazoxanide tablets 500 mg.

A single nitazoxanide tablet contains a greater amount of nitazoxanide than is recommended for use in pediatric patients 11 years or younger. [see Dosage and Administration (2.1)].

Safety and efficacy of ALINIA for Oral Suspension in pediatric patients less than one year of age has not been studied.

8.5 Geriatric Use

Clinical studies of nitazoxanide tablets and Alinia for oral suspension did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. In general, the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy in elderly patients should be considered when prescribing nitazoxanide tablets and Alinia for oral suspension.

8.6 Renal and Hepatic Impairment

The pharmacokinetics of nitazoxanide in patients with compromised renal or hepatic function has not been studied.

8.7 HIV-Infected or Immunodeficient Patients

Nitazoxanide tablets and Alinia for oral suspension have not been studied for the treatment of diarrhea caused by *G. lamblia* in HIV-infected or immunodeficient patients. Nitazoxanide tablets and Alinia for oral suspension have not been shown to be superior to placebo for the treatment of diarrhea caused by *C. parvum* in HIV-infected or immunodeficient patients [see Clinical Studies (14)].

10 OVERDOSAGE

Limited information on nitazoxanide overdosage is available. In the event of overdose, gastric lavage may be appropriate soon after oral administration. Patients should be observed and given symptomatic and supportive treatment. There is no specific antidote for overdose with nitazoxanide. Because tizoxanide is highly protein bound (>99.9%), dialysis is unlikely to significantly reduce plasma concentrations of the drug.

11 DESCRIPTION

Nitazoxanide tablets contain the active ingredient, nitazoxanide, a synthetic antiprotozoal for oral administration. Nitazoxanide is a pale yellow to yellow crystalline powder. It is poorly soluble in ethanol and practically insoluble in water. Chemically, nitazoxanide is 2-acetyloxy-N-(5-nitro-2-thiazolyl) benzamide. The molecular formula is $C_{12}H_9N_3O_5S$ and the molecular weight is 307.3. The structural formula is:

Nitazoxanide tablets contain 500 mg of nitazoxanide and the following inactive ingredients: maize starch, partially pregelatinized maize starch, sodium starch glycolate, hypromellose, talc, magnesium stearate, soy lecithin, polyvinyl alcohol, xanthan gum, titanium dioxide, D&C Yellow No.10 Aluminum Lake, FD&C Yellow No. 6 Aluminum Lake and FD&C Blue No.2 Aluminum Lake.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Nitazoxanide is an antiprotozoal [see Microbiology (12.4)].

12.3 Pharmacokinetics

<u>Absorption</u>

Single Dosing:

Following oral administration of nitazoxanide tablets or oral suspension, the parent drug, nitazoxanide, is not detected in plasma. The pharmacokinetic parameters of the metabolites, tizoxanide and tizoxanide glucuronide are shown in Tables 2 and 3 below.

Table 2. Mean (+/- SD) plasma pharmacokinetic parameters of tizoxanide and tizoxanide glucuronide following administration of a single dose of one 500 mg nitazoxanide tablet with food to subjects ≥12 years of age

	Tizoxanide			Tizoxanide Glucuronide		
Age	C _{max} (μg/mL)		AUC _t	C _{max}	*T _{max}	AUC _t
10 17	0.1 (6.1)	(hr)	(μg•hr/mL)	(μg/mL)	(hr)	(μg•hr/mL)
12-17 years	9.1 (6.1)	4.0 (1-4)	39.5 (24.2)	7.3 (1.9)	4.0 (2-8)	46.5 (18.2)
≥18 years	10.6 (2.0)	3.0 (2-4)	41.9 (6.0)	10.5 (1.4)	4.5 (4-6)	63.0 (12.3)

^{*} T_{max} is given as a Mean (Range)

Table 3. Mean (+/- SD) plasma pharmacokinetic of tizoxanide and tizoxanide glucuronide parameter values following administration of a single dose of nitazoxanide for oral suspension with food to subjects ≥1 year of age

		Tizoxanide			Tizoxanide	Glucuronid	e
Age	Dose	C _{max} (µg/mL)	*T _{max} (hr)	AUC _{inf} (μg•hr/mL)	C _{max} (μg/mL)	*T _{max} (hr)	AUC _{inf} (μg•hr/mL)
1-3 years	100 mg	3.11 (2.0)	3.5 (2-4)	11.7 (4.46)	3.64 (1.16)	4.0 (3-4)	19.0 (5.03)
4-11 years	200 mg	3.00 (0.99)	2.0 (1-4)	13.5 (3.3)	2.84 (0.97)	4.0 (2-4)	16.9 (5.00)
≥18 years	500 mg	5.49 (2.06)	2.5 (1-5)	30.2 (12.3)	3.21 (1.05)	4.0 (2.5-6)	22.8 (6.49)

^{*} T_{max} is given as a Mean (Range)

Multiple dosing:

Following oral administration of a single nitazoxanide tablet every 12 hours for 7 consecutive days, there was no significant accumulation of nitazoxanide metabolites tizoxanide or tizoxanide glucuronide detected in plasma.

Bioavailability:

Nitazoxanide for oral suspension is not bioequivalent to nitazoxanide tablets. The relative bioavailability of the suspension compared to the tablet was 70%.

When nitazoxanide tablets are administered with food, the AUC_{τ} of tizoxanide and tizoxanide glucuronide in plasma is increased almost two-fold and the C_{max} is increased by almost 50%.

When nitazoxanide for oral suspension was administered with food, the AUC $_{\tau}$ of tizoxanide and tizoxanide glucuronide increased by about 45-50% and the C $_{max}$ increased by $\leq 10\%$.

Nitazoxanide tablets and nitazoxanide for oral suspension were administered with food in clinical trials and hence they are recommended to be administered with food [see Dosage and Administration (2.1)].

Distribution

In plasma, more than 99% of tizoxanide is bound to proteins.

Elimination

Metabolism

Following oral administration in humans, nitazoxanide is rapidly hydrolyzed to an active metabolite, tizoxanide (desacetyl-nitazoxanide). Tizoxanide then undergoes conjugation, primarily by glucuronidation.

Excretion

Tizoxanide is excreted in the urine, bile and feces, and tizoxanide glucuronide is excreted in urine and bile. Approximately two-thirds of the oral dose of nitazoxanide is excreted in the feces and one-third in the urine.

Specific Populations

Pediatric Patients

The pharmacokinetics of tizoxanide and tizoxanide glucuronide following administration of nitazoxanide tablets in pediatric patients 12-17 years of age are provided above in Table 2.Mean (±SD) plasma pharmacokinetic parameters of tizoxanide and tizoxanide glucuronide following administration of a single dose of one 500 mg Nitazoxanide Tablet with food to subject ≥12 years of age. The pharmacokinetics of tizoxanide and tizoxanide glucuronide following administration of nitazoxanide for oral suspension in pediatric patients 1-11 years of age are provided above in Table 3. Mean (±SD) plasma pharmacokinetic of tizoxanide and tizoxanide glucuronide parameter values following administration of a single dose of ALINIA for Oral suspension with food to subjects ≥1 year of age.

Drug Interaction Studies

In vitro studies demonstrated that tizoxanide has no significant inhibitory effect on cytochrome P450 enzymes.

12.4 Microbiology

Mechanism of Action

The antiprotozoal activity of nitazoxanide is believed to be due to interference with the pyruvate:ferredoxin oxidoreductase (PFOR) enzyme-dependent electron transfer reaction which is essential to anaerobic energy metabolism. Studies have shown that the PFOR enzyme from *G. lamblia* directly reduces nitazoxanide by transfer of electrons in the absence of ferredoxin. The DNA-derived PFOR protein sequence of *C. parvum* appears to be similar to that of *G. lamblia*. Interference with the PFOR enzyme-dependent electron transfer reaction may not be the only pathway by which nitazoxanide exhibits antiprotozoal activity.

Resistance

A potential for development of resistance by *C. parvum* or *G. lamblia* to nitazoxanide has not been examined.

Antimicrobial Activity

Nitazoxanide and its metabolite, tizoxanide, are active *in vitro* in inhibiting the growth of (i) sporozoites and oocysts of *C. parvum* and (ii) trophozoites of *G. lamblia*.

Susceptibility Test Methods

For protozoa such as *C. parvum* and *G. lamblia*, standardized tests for use in clinical microbiology laboratories are not available.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment Of Fertility

Carcinogenesis

Long-term carcinogenicity studies have not been conducted.

<u>Mutagenesis</u>

Nitazoxanide was not genotoxic in the Chinese hamster ovary (CHO) cell chromosomal aberration assay or the mouse micronucleus assay. Nitazoxanide was genotoxic in one tester strain (TA 100) in the Ames bacterial mutation assay.

Impairment of Fertility

Nitazoxanide did not adversely affect male or female fertility in the rat at 2400 mg/kg/day (approximately 20 times the clinical adult dose adjusted for body surface area).

14 CLINICAL STUDIES

14.1 Diarrhea Caused by G. lamblia

<u>Diarrhea caused by G. lamblia in adults and adolescents 12 years of age or older:</u>

In a double-blind, controlled trial (Study 1) conducted in Peru and Egypt in adults and adolescents with diarrhea and with one or more enteric symptoms (e.g., abdominal pain, nausea, vomiting, fever, abdominal distention, loss of appetite, flatulence) caused by G. lamblia, a three-day course of treatment with nitazoxanide tablets administered 500 mg twice daily was compared with a placebo tablet for 3 days. A third group of patients received open-label nitazoxanide for oral suspension administered 500 mg/25 mL of suspension twice daily for 3 days. A second double-blind, controlled trial (Study 2) conducted in Egypt in adults and adolescents with diarrhea and with or without enteric symptoms (e.g., abdominal colic, abdominal tenderness, abdominal cramps, abdominal distention, fever, bloody stool) caused by G. lamblia compared nitazoxanide tablets administered 500 mg twice daily for 3 days to a placebo tablet. For both of these studies, clinical response was evaluated 4 to 7 days following the end of treatment. A clinical response of 'well' was defined as 'no symptoms, no watery stools and no more than 2 soft stools with no hematochezia within the past 24 hours' or 'no symptoms and no unformed stools within the past 48 hours.' The following clinical response rates were obtained:

Table 4. Adult and Adolescent Patients with Diarrhea Caused by *G. lamblia* Clinical Response Rates* 4 to 7 Days Post-therapy % (Number of Successes/Total)

	Nitazoxanide Tablets	Nitazoxanide for Oral	Placebo Tablets
		Suspension	
Study 1	85% (46/54) ¶§	83% (45/54) ¶ §	44% (12/27)
Study 2	100% (8/8)	-	30% (3/10)

^{*}Includes all patients randomized with *G. lamblia* as the sole pathogen. Patients failing to complete the studies were treated as failures.

Some patients with 'well' clinical responses had *G. lamblia* cysts in their stool samples 4 to 7 days following the end of treatment. The relevance of stool examination results in these patients is unknown. Patients should be managed based upon clinical response to treatment.

<u>Diarrhea caused by G. lamblia in pediatric patients 1 through 11 years of age:</u>

In a randomized, controlled trial conducted in Peru in 110 pediatric patients with diarrhea and with or without enteric symptoms (e.g., abdominal distention, right iliac fossa tenderness) caused by *G. lamblia*, a three-day course of treatment with nitazoxanide (100 mg twice daily in pediatric patients ages 24-47 months, 200 mg twice daily in pediatric patients ages 4 through 11 years) was compared to a five-day course of

 $[\]P$ Clinical response rates statistically significantly higher when compared to placebo. \P The 95% confidence interval of the difference in response rates for the tablet and suspension is (-14%, 17%).

treatment with metronidazole (125 mg twice daily in pediatric patients ages 2 through 5 years, 250 mg twice daily in pediatric patients ages 6 through 11 years). Clinical response was evaluated 7 to 10 days following initiation of treatment with a 'well' response defined as 'no symptoms, no watery stools and no more than 2 soft stools with no hematochezia within the past 24 hours' or 'no symptoms and no unformed stools within the past 48 hours.' The following clinical response rates were obtained:

Table 5. Clinical Response Rates in Pediatric Patients 7 to 10 Days Following Initiation of Therapy Intent-to-Treat and Per Protocol Analyses % (Number of Successes/Total), [95% Confidence Interval]

Population	Nitazoxanide (3 days)	Metronidazole (5	95% CI Diff [§]
	_	days)	
Intent-to-treat analysis†	85% (47/55)	80% (44/55)	[-9%, 20%]
Per protocol analysis¶	90% (43/48)	83% (39/47)	[-8%, 21%]

[†]Intent-to-treat analysis includes all patients randomized with patients not completing the study treated as failures.

¶Per protocol analysis includes only patients who took all of their medication and completed the study. Seven patients in each treatment group missed at least one dose of medication and one in the metronidazole treatment group was lost to follow-up. §95% Confidence Interval on the difference in response rates (nitazoxanidemetronidazole).

Some patients with 'well' clinical responses had *G. lamblia* cysts in their stool samples 4 to 7 days following the end of treatment. The relevance of stool examination results in these patients is unknown. Patients should be managed based upon clinical response to treatment.

14.2 Diarrhea Caused by C. parvum

<u>Diarrhea caused by C. parvum in adults and adolescents 12 years of age or older:</u>

In a double-blind, controlled trial conducted in Egypt in adults and adolescents with diarrhea and with or without enteric symptoms (e.g., abdominal pain/cramps, nausea, vomiting) caused by *C. parvum*, a three-day course of treatment with nitazoxanide tablets administered 500 mg twice daily was compared with a placebo tablet for 3 days. A third group of patients received open-label nitazoxanide for oral suspension administered 500 mg/25 mL of suspension twice daily for 3 days. Clinical response was evaluated 4 to 7 days following the end of treatment. A clinical response of 'well' was defined as 'no symptoms, no watery stools and no more than 2 soft stools within the past 24 hours' or 'no symptoms and no unformed stools within the past 48 hours.' The following clinical response rates were obtained:

Table 6. Clinical Response Rates in Adult and Adolescent Patients 4 to 7 Days Post-therapy % (Number of Successes/Total)

	Nitazoxanide Tablets	Nitazoxanide Suspension	Placebo Tablets
Intent-to-treat analysis*	96% (27/28) ¶ §	87% (27/31) ¶ §	41% (11/27)

^{*}Includes all patients randomized with *C. parvum* as the sole pathogen. Patients failing to complete the study were treated as failures.

In a second double-blind, placebo-controlled trial of nitazoxanide tablets conducted in Egypt in adults and adolescents with diarrhea and with or without enteric symptoms

[¶]Clinical response rates statistically significantly higher when compared to placebo. § The 95% confidence interval of the difference in response rates for the tablet and suspension is (-10%, 28%).

(e.g., abdominal colic, abdominal cramps, epigastric pain) caused by *C. parvum* as the sole pathogen, clinical and parasitological response rates showed a similar trend to the first study. Clinical response rates, evaluated 2 to 6 days following the end of treatment, were 71% (15/21) in the nitazoxanide group and 42.9% (9/21) in the placebo group.

Some patients with 'well' clinical responses had *C. parvum* oocysts in their stool samples 4 to 7 days following the end of treatment. The relevance of stool examination results in these patients is unknown. Patients should be managed based upon clinical response to treatment.

<u>Diarrhea caused by C. parvum in pediatric patients 1 through 11 years of age:</u>

In two double-blind, controlled trials in pediatric patients with diarrhea and with or without enteric symptoms (e.g., abdominal distention, colic, left iliac fossa tenderness) caused by *C. parvum*, a three-day course of treatment with nitazoxanide (100 mg twice daily in pediatric patients ages 12-47 months, 200 mg twice daily in pediatric patients ages 4 through 11 years) was compared with a placebo. One study was conducted in Egypt in outpatients ages 1 through 11 years with diarrhea caused by *C. parvum*. Another study was conducted in Zambia in malnourished pediatric patients admitted to the hospital with diarrhea caused by *C. parvum*. Clinical response was evaluated 3 to 7 days post-therapy with a 'well' response defined as 'no symptoms, no watery stools and no more than 2 soft stools within the past 24 hours' or 'no symptoms and no unformed stools within the past 48 hours.' The following clinical response rates were obtained:

Table 7. Clinical Response Rates in Pediatric Patients 3 to 7 Days Posttherapy Intent-to-Treat Analyses % (Number of Successes/Total)

Population	Nitazoxanide*	Placebo
Outpatient Study, age 1 -11 years	88% (21/24)	38% (9/24)
Inpatient Study, Malnourished [¶] ,	56% (14/25)	23% (5/22)
age 12-35 months		

^{*}Clinical response rates statistically significantly higher compared to placebo. ¶60% considered severely underweight, 19% moderately underweight, 17% mild underweight.

Some patients with 'well' clinical responses had *C. parvum* oocysts in their stool samples 3 to 7 days following the end of treatment. The relevance of stool examination results in these patients is unknown. Patients should be managed based upon clinical response to treatment.

<u>Diarrhea caused by *C. parvum* in Acquired Immune Deficiency Syndrome</u> (AIDS) patients:

A double-blind, placebo-controlled trial did not produce clinical cure rates that were significantly different from the placebo control when conducted in hospitalized, severely malnourished pediatric patients with acquired immune deficiency syndrome (AIDS) in Zambia. In this study, the pediatric patients received a three day course of nitazoxanide suspension (100 mg twice daily in pediatric patients ages 12-47 months, 200 mg twice daily in pediatric patients ages 4 through 11 years) and were evaluated for response four days after the end of treatment.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 Nitazoxanide Tablets (500 mg)

Nitazoxanide tablets are round, yellow colored film coated tablet, debossed with "SUVEN" on one side and "500" on the other side. Each tablet contains 500 mg of

nitazoxanide. The tablets are packaged in HDPE bottles of 6, 12, 18 and 30 tablets.

Bottles of 6 tablets	NDC 64980-526-60
Bottles of 12 tablets	NDC 64980-526-21
Bottles of 18 tablets	NDC 64980-526-81
Bottles of 30 tablets	NDC 64980-526-03

Store the tablets at 25°C (77°F); excursions permitted to 15°C-30°C (59°F-86°F). [See USP Controlled Room Temperature]

17 PATIENT COUNSELING INFORMATION

Advise patients and parents/caregivers of pediatric patients taking nitazoxanide tablets of the following information:

Dosage and Administration:

Nitazoxanide tablets should be taken with food.

Drug-drug Interactions:

Avoid concurrent warfarin use.

Manufactured by:

Suven Pharmaceuticals Limited

Pashamylaram, Telangana 502307, India

Manufactured for:

Rising Pharma Holdings, Inc. East Brunswick, NJ 08816

ALINIA for Oral Suspension is distributed by Lupin Pharmaceuticals, Inc. under license from Romark.

ALINIA is a registered trademark of Romark

ML No. 24/MD/AP/2009/F/CC

Revised: 03/2025

PIR52603-04

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

Rising[®] NDC 64980-526-60

Nitazoxanide Tablets 500 mg

6 Tablets Rx only



Rising[®] NDC 64980-526-21

Nitazoxanide Tablets 500 mg

12 Tablets Rx only



Rising[®] NDC 64980-526-81

Nitazoxanide Tablets 500 mg

18 Tablets Rx only



Rising® NDC 64980-526-03

Nitazoxanide Tablets 500 mg

30 Tablets Rx only



NITAZOXANIDE

nitazoxanide tablet, film coated

Product Information Product Type HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:64980-526 Route of Administration ORAL

Active Ingredient/Active Moiety Ingredient Name Basis of Strength NITAZOXANIDE (UNII: SOA12P041N) (NITAZOXANIDE - UNII:SOA12P041N) NITAZOXANIDE 500 mg

Inactive Ingredients	
Ingredient Name	Strength
STARCH, CORN (UNII: O8232NY3SJ)	
SODIUM STARCH GLYCOLATE TYPE A CORN (UNII: AG9B65PV6B)	
HYPROMELLOSE 2910 (15000 MPA.S) (UNII: 288VBX44JC)	
TALC (UNII: 7SEV7J4R1U)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	

Product Characteristics				
Color	YELLOW	Score	no score	
Shape	ROUND	Size	13mm	
Flavor		Imprint Code	SUVEN;500	
Contains				

Packaging							
#	Item Code	Package Description	Marketing Start Date	Marketing End Date			
1	NDC:64980-526- 60	6 in 1 BOTTLE; Type 0: Not a Combination Product	11/27/2020				
2	NDC:64980-526- 21	12 in 1 BOTTLE; Type 0: Not a Combination Product	11/27/2020				
3	NDC:64980-526- 81	18 in 1 BOTTLE; Type 0: Not a Combination Product	11/27/2020				
4	NDC:64980-526- 03	30 in 1 BOTTLE; Type 0: Not a Combination Product	11/27/2020				

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA213820	11/27/2020	

Labeler - Rising Pharma Holdings, Inc. (116880195)

Establishment								
Name	Address	ID/FEI	Business Operations					
Suven Life Sciences		677604288	MANUFACTURE(64980-526)					

Revised: 4/2025 Rising Pharma Holdings, Inc.