WARNING: TORSADES DE POINTES AND SUDDEN DEATH

- Cases of Torsades de Pointes, cardiac arrest, and death have been reported with the use of a higher than recommended dosages of Loperamide Hydrochloride Capsules (see WARNINGS and OVERDOSAGE).
- Loperamide Hydrochloride Capsules is contraindicated in pediatric patients less than 2 years of age (see CONTRANIDICATIONS).
- Avoid Loperamide Hydrochloride Capsules, 2 mg dosages higher than recommended in adults and pediat patients 2 years of age and older due to the risk of serious cardiac adverse reactions (see DOSAGE AND ADMINISTRATION).

Loperamide Hydrochloride Capsules USP (loperamide hydrochloride), 4-(p-chlorophenyl)-4-hydroxy-N,N-dimethyl-a,a-diphenyl-1-piperidinebutyramide monohydrochloride, is a synthetic antidiarrheal for oral use.

Loperamide Hydrochloride Capsules USP is available in 2mg capsules

The inactive ingredients are: Magnesium stegrate, microcrystalline cellulose, sodium starch alveolate, lactose monohydrate ioidal silicon discola. In addition, the hard gelatin capsule also contains gelatin, labek in oxide, redirecti xide and yellow iron oxide. The black printing ink contains black iron oxide, propylene glycol, shellac, and potassium

CLINICAL PHARMACOLOGY

Mechanism of Action

Revised 09/2021

Capsules, USP

Loperamide Hydrochloride

Loperamide Hydrochloride

Capsules, USP

Revised 09/2021

meximization to Actions

In withor and animal studies show that Loperamide Hydrochloride Capsules (loperamide hydrochloride) acts by slowing intestinal motility and by affecting water and electrolyte movement through the bowel.

Loperamide binds to the opiate receptor in the gut wall. Consequently, it inhibits the release of acetylcholine and prostaglandins, thereby reducing incontinence and urgency.

Loperamide prolongs the transit time of the intestinal contents. It reduces daily fecal volume, increases the viscosity and bulk density, and diminishes the loss of fluid and electrolytes.

Tolerance to the antidiarrheal effect has not been observed

<u>Pharmacokinetics</u>

Absorption

. Plasma concentrations of unchanged drug remain below 2 ng/mL after the intake of a 2 mg capsule of Loperamide Hydrochlorida ules. Plasma loperamide concentrations are highest approximately 5 hours after administration of the capsule and 2.5 hours after the liquid. The peak plasma concentrations of loperamide were similar for both formulations.

Distribution

Based on literature information, the plasma protein binding of loperamide is about 95%. Loperamide is a P-glycopr

The apparent elimination half-life of loperamide is 10.8 hours with a range of 9.1 to 14.4 hours. Elimination of loperamide

Metabolism

In vitro loperamide is metabolized mainly by cytochrome P450 (CYP450) isozymes, CYP2C8 and CYP3A4, to form-N-demethyl loperamide. In an in vitro study queretin (CYP2C6 inhibitor) and ketoconedo (CYP3A6 inhibitor) significantly inhibited the N-demethylation process by 40% and 90%, respectively. In addition, CYP2B6 and CYP2D6 appear to play a minor role in loperamide N-demethylation.

Concomitant use of Loperamide Hydrochloride Capsules with inhibitors of CYP3A4 (e.g., itraconazole) or CYP2C8 (e.g. gemfibrozil) or inhibitors of P-glycoprotein (e.g., quinidine, ritonavir) can increase exposure to loperamide (see PRECAUTIONS,

Excretion

Excretion of the unchanged loperamide and its metabolites mainly occurs through the feces

INDICATIONS AND USAGE

Loperamide Hydrochloride Capsules (loperamide hydrochloride) is indicated for the control and symptomatic relief of acute nonspecific diarrhea in patients 2 years of age and older and of chronic diarrhea in adults associated with inflammatory bo disease. Loperamide Hydrochloride Capsules is also indicated for reducing the volume of discharge from ileostomies.

Loperamide Hydrochloride Capsules, 2 mg is contraindicated in:

- pediatric patients less than 2 years of age due to the risks of respiratory depression and serious cardiac adverse re (see WARNINGS).
- patients with a known hypersensitivity to loperamide hydrochloride or to any of the excipients.
- patients with abdominal pain in the absence of diarrhea.
- patients with acute dysentery, which is characterized by blood in stools and high fever
- patients with acute ulcerative colitis.
- patients with bacterial enterocolitis caused by invasive organisms including Salmonella, Shigella, and Campylobacter
- patients with pseudomembranous colitis (e.g., Clostridium difficle) associated with the use of broad-spectrum antibiotics.

Cardiac Adverse Reactions, Including Torsades de Pointes and Sudden Death Cases of prolongation of the QT/QTc interval, Torsades <u>Sarance Anverse reactions</u>, <u>Incusing in consists are romes and spacen used moves of pronogrania or the utylutic interval, instance</u>
de Pointes, other ventricular arrhythminis, cardiac arrest, some resulting in death, have been reported in adults with use of higher than recommended doses per day of Loperamide Hydrochloride Capsules. Cases include patients who were abusing or misusing loperamide hydrochloride (see **OVERDOSAGE** and **DRUG ABUSE AND DEPENDENCE**). Cases of syncope and ventricular tachycardia have been reported in adult patients receiving the recommended dosage of Loperamide Hydrochloride Capsules. Some of these patients were taking other drugs or had other risk factors that may have increased their risk of cardiac adverse reactions. Additionally, postmarketing cases of cardiac arrest, syncope, and respiratory depression have been reported in pediatric patients

Loperamide Hydrochloride Capsules is contraindicated in pediatric patients less than 2 years of age due to the risks of respirator depression and serious cardiac adverse reactions. Avoid Loperamide Hydrochloride Capsules dosages higher than recommended adults and pediatric patients 2 years of age and older due to the risk of serious cardiac adverse reactions (see DOSAGE AND ADMINISTRATION, OVERDOSAGE)

Avoid Loperamide Hydrochloride Cansules in:

- combination with other drugs or herbal products that are known to prolong the QT interval, including Class 1A (e.g., quinidine, procainamide) or Class III (e.g., amiodarone, sotalol) antiarrhythmics, antipsychotics (e.g., chlorpror naloperidol, thioridazine, ziprasidone), antibiotics (e.g., moxifloxacin), or any other drug known to prolong the QT interval (e.g., pentamidine, levomethadyl acetate, methadon
- patients with risk factors for QT prolongation, including patients with congenital long QT syndrome, with a history of cardiac arrhythmias or other cardiac conditions, elderly patients and those with electrolyte abnormalitie

Fluid and electrolyte depletion often occur in patients who have diarrhea. In such cases, administration of appropriate fluid and electrolytes is very important. The use of Loperamide Hydrochloride Capsules does not preclude the need for appropriate fluid and electrolyte therapy

Gastrointestinal Disorders

In general, Loperamide Hydrochloride Capsules should not be used when inhibition of peristalsis is to be avoided due to the possible risk of significant sequelae including ileus, megacolon and toxic megacolon.

Loperamide Hydrochloride Capsules must be discontinued promptly when constipation, abdominal distention or ileus develop

Treatment of diarrhea with Loperamide Hydrochloride Capsules is only symptomatic. Whenever an underlying etiology can be determined, specific treatment should be given when appropriate (or when indicated).

Patients with AIDS treated with Loperamide Hydrochloride Capsules for diarrhea should have therapy stopped at the earliest signs to least with a doctor with Capetane is you consider copy and the control of both and in the control of both and distention. There have been isolated reports of taxic megacolon in AIDS patients with infectious colitis from both viral and bacterial pathogens treated with loperamide hydrochloride.

Variability in Pediatric Response

Loperamide Hydrochloride Capsules should be used with special caution in pediatric patients because of the greater variability of toperatine tryanctionize (Lagistes) station are used with special cutorion in periodic patients of the group. Delhydration, particularly in pediatric patients less than 6 years of age, may further influence the variability of response to Loperamide Hydrochloride Capsules. Loperamide Hydrochloride Capsules is contraindicated in pediatric patients less than 2 years of age due to the risks of respiratory depression and serious cardiac adverse reactions.

PRECAUTIONS

Allergic Reactions Extremely rare allergic reactions including anaphylaxis and anaphylactic shock have been reported.

Hepatic Impairment

The effects of hengitic impairment on the pharmacokinetics of loperamide have not been studied. Use Loperamide Hydrochloride Togosiles with cution in such patients because the systemic exposure to loperamide may be increased due to reduced metabolism Monitor patients with hepatic impairment closely for signs of central nervous system (CNS) toxicity.

Renal Impairment

No pharmacokinetic data are available in patients with renal impairment. Since it has been reported that the majority of the drug is metabolized and metabolites or the unchanged drug are excreted mainly in the feces, dosage adjustments in patients with renal impairment are not required.

Geriatric Use

No formal studies have been conducted to evaluate the pharmacokinetics of loperamide in elderly subjects. However, in two studies that enrolled elderly patients, there were no major differences in the drug disposition in elderly patients with diarrhea relative to young patients.

In general, elderly patients may be more susceptible to drug-associated effects on the QT interval. Avoid Loperamide Hydrochloride Capsules in elderly patients taking drugs that can result in prolongation of the QT interval (for example, Class IA or III antiarrhythmics) or in patients with risk factors for Torsades de Pointes (see WARNINGS).

Information for Patients

Advise patients:

- nide Hydrochloride Capsules at the prescribed dosage. Use of a higher than prescribed dosage is not recommended (see WARNINGS). Report to a healthcare facility if you or someone you are caring for taking Loperamide Hydrochloride Capsules experiences fainting episode, a rapid or irregular heartbeat or become unresponsive.
- with acute diarrhea, that if clinical improvement is not observed in 48 hours, discontinue Loperamide Hydrochloride
- to contact their healthcare provider if they see blood in their stools, or if they develop a fever or abdominal distention
- to use caution when driving a car or operating machinery, as tiredness, dizziness, or drowsiness may o diarrheal syndromes treated with Loperamide Hydrochloride Capsules. (see ADVERSE REACTIONS).
- to tell their healthcare provider about all the medications they are taking, including prescription and over-the-counter to ten in realisticity provide about an interactions in your textury, including prescription and vertile volunt edications, vitamins and herbal supplements, especially if they take (Class IA (e.g., quiridine, procainamide) or Class III (e.g., amiodarone, sotalol) antiarrhythmics, antipsychotics (e.g., chlorpromazine, haloperidol, thioridazine, ziprasidone), antibiotics (e.g., moxifloxacin), or any other drug known to prolong the QT interval (e.g., pentamidine, levomethodyl acetate, methadone).

Drug Interactions

Effects of Other Drugs on Loneramide

Concomitant use of Loperamide Hydrochloride Copsules with inhibitors of CYP344 (e.g., itraconazole) or CYP268 (e.g., gemfibrozil) or inhibitors of Pglycoprotein (e.g., quinidine, ritonovir) can increase exposure to loperamide. The increased sys exposure to loperamide may increase a risk for cardiac adverse reactions especially in patients who are taking multiple CYP nzyme inhibitors, or in patients with underlying cardiac conditions (see WARNINGS). Monitor patients for cardiac advers

CYP3A4 Inhibitor

Itraconazole

Concomitant administration of multiple doses of 100 mg itraconazole twice daily, an inhibitor of both CYP3A4 and P-glycoprotein, with a single 4-mg dose of loperamide hydrochloride increased the peak plasma concentration and the systemic exposure to loperamide by 2.9-fold and 3.8-fold, respectively.

CYP2C8 Inhibitors

When a single 4-mg dose of loperamide hydrochloride was co-administered with 600 mg gemfibrozil, a strong inhibitor of CYP2C8, which a single 4-ing acide of reperantial hydroctriorials was co-administered with acount on day 3 of a 5-day treatment with gemfibrozil twice daily, the mean peak plasma con loperamide was increased by 1.6-fold and 2.2-fold, respectively.

When multiple doses of both 100 mg itraconazole and 600 mg gemfibrozil twice daily were administered with a single 4-mg dose of loperamide hydrochloride, the mean peak plasma concentration and the systemic exposure to loperamide was increased by of loperamide hydrochloride, the mo 4.2-fold and 12.6-fold, respectively.

r-grycupiest initiations of a 16 mg single dose of loperamide hydrochloride with a 600 mg single dose of quinidine or ritionavir, both of which are Palycoprotein inhibitiors, resulted in a 2-to 3-fold increase in loperamide plasma concentrations. Due to the potential for enhanced CNS adverse reactions when loperamide is co-administered with quinidine and with ritionavir, coution should be exercised when Loperamide Hydrochloride Capsules is administered at the recommended dosages (2 mg, up to 16 mg maximum daily dose) with P-alycoprotein inhibitors.

Effects of Loperamide on Other Drugs

When a single 16-mg dose of loperamide hydrochloride is coadministered with a 600 mg single dose of saquinavir, loperamide decreased saquinavir exposure by 54%, which may be of clinical relevance due to reduction of therapeutic efficacy of saquinavir. The effect of saquinavir on loperamide is of less clinical significance. Therefore, when Loperamide Hydrochloride Capsules is given with saquinavir, the therapeutic efficacy of saquinavir should be closely monitored.

Carcinogenesis, mutagenesis, impairment of fertility

In an 18-month rat study with oral loperamide hydrochloride doses up to 40 mg/kg/day (21 times the maximum human dose of 16 mg/day, based on a body surface area comparison), there was no evidence of carcino

Loperamide was not genotoxic in the Ames test, the SOS chromotest in E. coli, the dominant lethal test in female mice, or the mouse embryo cell transformation assay.

Fertility and reproductive performance was evaluated in rats using oral doses of 2.5, 10, and 40 mg/kg/day (females only) in a second study. Oral administration of 20 mg/kg/day (approximately 11 times the human dose based on a body surface area comparison) and higher, produced a strong impairment of female fertility. Treatment of female rats with up to 10 mg/kg/day(approximately 5 times the human dose based on a body surface area comparison) had no effect on fertility. Treatment of male trans with oral doses of 40 mg/kg/day (approximately 21 times the human dose based on a body surface area comparison) produced impairment of male fertility, whereas administration of up to 10 mg/kg/day (approximately 5 times the human dose pased on a body surface area comparison) had no effect

Pregnancy Teratogenic Effects Pregnancy

Teratology studies have been performed in rats using oral loperamide hydrochloride doses of 2.5, 10, and 40 mg/kg/day, and in returning soutes have emperorment in this using our negation methods using a considerable such as (x,y), (x,y), and in trabiblis using a roll doses of (y,y), and (y,y), and (y,y) and (y,(21 times the human dose based on a body surface area comparison) produced marked impairment of fertility. The studies produced no evidence of teratogenic activity. There are no adequate and well controlled studies in pregnant women. Loperamide Hydrochloride Capsules should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nonteratogenic Effects In a peri- and post-natal development study in rats, oral administration of 40 mg/kg/day produced impairment of growth and rvival of offspring

Small amounts of loperamide may appear in human breast milk. Therefore, Loperamide Hydrochloride Capsules is not

Pediatric Use

Loperamide Hydrochloride Capsules is contraindicated in pediatric patients less than 2 years of age due to the risks of respiratory depression and serious cardiac adverse reactions (see CONTRAINDICATIONS). Postmarketing cases of cardiac arrest, syncope seperation and actions demonstrated by the second of the s acute dysentery, overdose, and with pediatric patients less than two years of age.

Loperamide Hydrochloride Capsules should be used with special caution in pediatric patients because of their greater variability of response (see WARNINGS). Dehydration, particularly in pediatric patients less than 6 years of age, may further influence th variability of response to Loperamide Hydrochloride Capsules

The safety and effectiveness of Loperamide Hydrochloride Capsules in pediatric patients with chronic diarrhea have not been established. Although Loperamide Hydrochloride Capsules has been studied in a limited number of pediatric patients with chronic diarrhea; the therapeutic dose for the treatment of chronic diarrhea in a pediatric population has not been established.

In case of accidental overdosage of Loperamide Hydrochloride Capsules by pediatric patients, see OVERDOSAGE for suggested

ADVERSE REACTIONS

Clinical Trial Experience

The adverse effects eported during clinical investigations of Loperamide Hydrochloride Capsules (loperamide hydrochloride) are difficult to distinguish from symptoms associated with the diarrheal syndrome. Adverse experiences recorded during clinical studies with Loperamide Hydrochloride Capsules were generally of a minor and self-limiting nature. They were more commonly observed during the treatment of chronic diarrhea.

The adverse events reported are summarized irrespective of the causality assessment of the investigators

1) Adverse events from 4 placebo-controlled studies in patients with acute diarrhea

The adverse events with an incidence of 1.0% or greater, which were reported at least as often in patients on loperamide hydrochloride as on placebo, are presented in the table below.

	Acute Diarrhea	
	Loperamide Hydrochloride	Placebo
No. of treated patients	231	236
Gastrointestinal AE% Constipation	2.6%	0.8%

The adverse events with an incidence of 1.0% or greater, which were more frequently reported in patients on placebo than on loperamide hydrochloride, were: dry mouth, flatulence, abdominal cramp and coli

2) Adverse events from 20 placebo-controlled studies in patients with chronic diarrhea

The adverse events with an incidence of 1.0% or greater, which were reported at least as often in patients on loperamide hydrochloride as on placebo, are presented below in the table below.

	Chronic Diarrhea	Chronic Diarrhea		
	Loperamide Hydrochloride	Placebo		
No. of treated patients	285	277		
Gastrointestinal AE% Constipution	5.3%	0.0%		
Central and peripheral nervous system AE% Dizziness	1.4%	0.7%		

The adverse events with an incidence of 1.0% or greater, which were more frequently reported in patients on placebo than or loperamide hydrochloride were: nausea, vomiting, headache, meteorism, abdominal pain, abdominal cramp and colic.

3) Adverse events from seventy-six controlled and uncontrolled studies in patients with acute or chronic diarrhea.

The adverse events with an incidence of 1.0% or greater in patients from all studies are given in the table below.

	Acute Diarrhea	Chronic Diarrhea	All Studies a	
No. of treated patients	1913	1371	3740	
Gastrointestinal AE%				
Nausea	0.7%	3.2%	1.8%	
Constipation	1.6%	1.9%	1.7%	
Abdominal cramps	0.5%	3.0%	1.4%	

a. All patients in all studies, including those in which it was not specified if the adverse events occurred in patients with acute or

Postmarketing Experience

The following adverse events have been reported:

Cardiac disorders

QT/QTc interval prolongation, Torsades de Pointes, other ventricular arrhythmias, cardiac arrest, syncope, and death (se WARNINGS, OVERDOSAGE). Skin and subcutaneous tissue disorders

Rash, puritus, urticaria, and angioedema and extremely rare cases bullous eruption including erythema multiforme, Stevens-Johnson syndrome and Toxic Epidermal Necrolysis have been reported with use of Loperamide Hydrochloride Capsule Joseful docurrences of allergic reactions and in some cases severe hypersensitivity reactions including anaphylactic shock and anaphylactoid reactions have been reported with the use of Loperamide Hydrochloride Capsules

Dry mouth, abdominal pain, distention or discomfort, nausea, vomitina, flatulence, dyspepsia, constigation, paralytic ileus. megacolon; including toxic megacolon (see CONTRAINDICATIONS, WARNINGS).

Renal and urinary disorders

Urinary retention Nervous system disorders

Drowsiness, dizziness

General disorders and administrative site conditions

A number of the adverse events reported during the clinical investigations and post-marketing experience with loperamide are frequent symptoms of the underlying diarrheal syndrome (abdominal pain/discomfort, nausea, vomiting, dry mouth, firedness, drowsiness, dizziness, constipation, and flatulence). These symptoms are often difficult to distinguish from undesirable drug effects.

DRUG ABUSE AND DEPENDENCE

Loperamide is not a controlled substance.

Loperamide is a mu-opioid agonist. A human abuse potential study of loperamide hydrochloride at single doses up to 60 mg (3.75 times the recommended maximum adult dosage of 16 mg per day) was compared, in a double-blind cross-over design using nine subjects who had been active opiate users, to a threshold dose of codeine sulfate at 120 mg (96 mg base) or placebo. This resulted in one subject (11%) feeling a drug on placebo and identifying it as "dope" (heroin) and liking it slightly. Codeine was felt by 56% of subjects and identified as "dope" by 44%.

Loperamide was felt by 44% of subjects and identified as "dope" by 11% and possibly dope mixed with some other kind of drug by another 22%. Loperamide abuse and misuse have been reported, especially at doses of 60 mg or greater. Loperamide can have greater CNS opioid effects at higher doses or with co-administration of drugs that increase systemic exposure and/or increase etration of loperamide (through inhibition of the CYP450 enzyme system or inhibition of P-alycoprotein). Lop arily being misused for relief from opioid withdrawal and abused by a few users who obtain some (reportedly mild-moderate)

Dependence

In animals, parenteral administration of loperamide hydrochloride can cause physical dependence, cross-tolerance to opioids, and all the other pharmacologic effects typical of mu-opioid agonists.

Nursing Mothers

recommended during breast-feeding

Studies in morphine-dependent monkeys demonstrated that loperamide hydrochloride at doses above those recommended for humans prevented signs of morphine withdrawal

OVERDOSAGE

 $The use of higher than \ recommended \ Loperamide \ Hydrochloride \ Capsules \ doses \ may \ result \ in \ life-threatening \ cardiac, \ CNS \ and$

 $If over-exposure\ occurs,\ call\ your\ Poison\ Control\ Center\ at\ 1-800-222-1222\ for\ current\ information\ on\ the\ management\ of\ properties of\ the control\ control\$ poisoning or overdosage

Cardiac Effects

Cases of overdosage with loperamide hydrochloride (chronic ingestion of doses ranging from 70 mg to 1600 mg daily: 4 to 100 toses to overcosage with operatinate hydrocinotical curronic integes in a constraining front of any part of court and questions, and the strength of the stren cases that included cardiac adverse reactions:

- 25 year old abused loperamide and presented to the hospital on multiple occasions with symptoms of syncope, nausea 22 year out autosed unpermitted the integrated to the integrated on the integrated of the integrated o
- 54 year old misused loperamide hydrochloride (up to 144 mg per day) as a self- treatment for chronic diarrhea for over 2 years. Signs of cardiac toxicity included syncope, prolonged QT of 500 ms sinus arrest with junctional escape rhythm, and polymorphic ventricular tackycardia, which required cardioversion and implantable cardioverter-defibrillator (ICD) management.
- 26 year old, with prior opioid abuse, presented to the hospital with recurrent syncope and developed Torsades de Pointes
 requiring electrical cardioversion. An EEG revealed a sinus rhythm with a heart rate of 85 bpm and a markedly prolonged QTc interval of greater than 700 ms. The patient reported ingesting 100 to 250 mg of loperamide hydrochloride with 400 mg of cimetidine daily for several months to simulate the euphoric sensation associated with opioids.

Consider loperamide as a possible cause of cardiac arrhythmias in patients who may have a history of opioid abuse or recent ingestion of unknown drugs and in the differential diagnosis of unstable arrhythmias, prolonged QTc or QRS intervals, and Torsades de Pointes.

If loperamide-induced cardiac toxicity is suspected, promptly discontinue the drug and initiate therapy to manage and preven

In many cases of loperamide overdosage, anti-arrhythmic medications (e.g., magnesium sulfate) were ineffective in resolving the arrhythmias and preventing further episodes of Torsades de Pointes. Electrical cardioversion and overdrive pacing, and isoproterenol continuous infusion were reported to manage QTc prolongation in the setting of overdose.

Loperamide serum concentrations are not widely available or clinically useful to guide patient management

CNS and Respiratory Depression

Cases of loperamide overdose (including relative overdose due to hepatic dysfunction), may cause opioid toxic effects including CNS depression (e.g. altered mental status, stupor, coordination disorders, somnoler depression), hypotension, urinary retention, and paralytic ileus. Pediatric patients may be more sensitive to CIS effects, including respiratory depression, than adults.

Departmide non-cardiac arrhythmia overdosages should be treated as opioid overdosages. Noloxone may reverse the opioid-related toxicity, including CNS and respiratory depression, and hypotension, associated with loperamide overdosage.

In adults and pediatric patients, naloxone may be administered intravenously. Appropriate doses of naloxone, via intranasal intramuscular, intraosseus, or subcutaneous administration may be necessary if the intravenous route is not available. If the desired degree of opioid-related toxicity counteraction and improvement are not obtained, naloxone may be repeated at two-tonear aggree or upon trained askers (voluntation an important are not downed, industrie may are repeated or me to eminute intervals. If no response in opioid-related effects is observed after naloxone has been administered, then diagnosis of ioid-induced toxicity should be questioned.

 $Refer \ to \ the \ nalox one \ prescribing \ information \ for \ complete \ information \ on \ initial \ and \ subsequent \ dos ages.$

For patients whose adverse reactions are responsive to naloxone, monitor vital signs, neurologic and cardiopulmonary status for recurrence of opioid overdose symptoms for at least 24 hours after the last dose of naloxone, due to the prolonged intestinal retention of loperamide and the short duration (one to three hours) of naloxone. Patients with severe CNS or respirators depression, and those who require multiple doses of nalaxane to reverse symptoms, should be admitted to the hospital and may require intensive care.

Standard drug screens for opioids do not include an assay for loperamide; such testing for opioids will yield negative results even in the presence of loperamide.

DOSAGE AND ADMINISTRATION

Loperamide Hydrochloride Capsules is contraindicated in pediatric patients less than 2 years of age due to the risks of respiratory depression and serious cardiac adverse reactions (see **CONTRAINDICATIONS**).

Avoid Loperamide Hydrochloride Capsules dosages higher than recommended in adult or pediatric patients 2 years of age and older due to the risk of serious cardiac adverse reactions (See WARNINGS, OVERDOSAGE).

(1 capsule = 2 mg)

Patients should receive appropriate fluid and electrolyte replacement as needed

Acute Diarrhea

Adults and Pediatric Patients 13 Years and Older; The recommended initial dose is 4mg (two capsules) followed by 2 mg (one capsule) after each unformed stool. The maximum daily dose is 16mg (eight capsules). Clinical improvement is usually observed. within 48 hours.

Pediatric Patients 2 to 12 Years of Age: In pediatric patients 2 to 5 years of age (20 kg or less), the non-prescription liquid Translated to the County of th

Recommended First Day Dosage Schedule

Two to five years (13 to 20 kg): 1 mg three times daily (3 mg total daily dosage) Six to eight years (20 to 30 kg): 2 mg twice

Eight to twelve years (greater than 30kg): 2 mg three times daily (6 mg total daily dosage)

Recommended Subsequent Daily Dosage

Following the first treatment day, it is recommended that subsequent Loperamide Hydrochloride Capsules doses [1 mg/10 kg body weight] be administered only after a losse stool. The total daily dosage should not exceed recommended dosages for the first day.

Chronic Diarrhea

The recommended initial dose is 4 mg (two capsules) followed by 2 mg (one capsule) after each unformed stool until diarrhea is controlled, after which the dosage of Loperamide Hydrochloride Capsules should be reduced to meet individual requirements.
When the optimal daily dosage has been established, this amount may then be administered as a single dose or in divided doses. The average daily maintenance desage in clinical trials was 4 to 8 mg (two to four capsules per day). The maximum daily desage is 16 mg (eight capsules per day). If clinical improvement is not observed after treatment with 16 mg per day for at least 10 days, symptoms are unlikely to be controlled by further administration. Loperamide Hydrochloride Capsules administration may be continued if diarrhea cannot be adequately controlled with diet or specific treatment.

No formal pharmacokinetic studies were conducted in elderly subjects. However, there were no major differences reported in the drug disposition in elderly patients with diarrhea relative to young patients. No dose adjustment is required for the elderly.

In general, elderly patients may be more susceptible to drug-associated effects of the QT interval. Avoid Loperamide Hydrochloride In general, eaterly punishms may be more asseptions to disparsactions entered by me the transfer and consults in elderly patients taking drugs that can result in prolongation of the QT interval (for example, Class IA or III antiarrhythmics) or in patients with risk factors for Torsades de Pointes (see WARNINGS).

Renal Impairment

No pharmacokinetic data are available in patients with renal impairment. Since the metabolites and the unchanged drug are mainly excreted in the feces, no dosage adjustment is required for patients with renal impairment (see PRECAUTIONS

The pharmacokinetics of loperamide have not been studied in patients with hepatic impairment

Use Loperamide Hydrochloride Capsules with caution in such patients because the systemic exposure may be increased due to reduced metabolism (see PRECAUTIONS).

HOW SUPPLIED

Capsules - each capsule contains 2 mg of loperamide hydrochloride. The capsules have a light brown opaque cap and a light brown opaque body with an "^" over "605" imprinted radially on one segment.

NDC 42799-605-03

(30 CAPSILLES)

NDC 42799-605-01

(500 CAPSULES)

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

Manufactured for:

Edenbridge Pharmaceuticals, LLC

877-381-3336 Rx Only

Printed in USA

Revised 09/2021

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