HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use DEXLANSOPRAZOLE DELAYED-RELEASE CAPSULES safely and effectively. See full prescribing information for DEXLANSOPRAZOLE DELAYED-RELEASE CAPSULES.

DEXLANSOPRAZOLE delayed-release capsules, for oral use

Initial U.S. Approval: 1995 (lansoprazole) RECENT MAJOR CHANGES

Warnings and Precautions, Severe Cutaneous Adverse Reactions (5.5) 03/2022 Hypomagnesemia and Mineral Metabolism (5.8) 03/2022

-INDICATIONS AND USAGE-

--DOSAGE FORMS AND STRENGTHS

Dexlansoprazole is a proton pump inhibitor (PPI) indicated in patients 12 years of age and older for:

Healing of all grades of erosive esophagitis (EE). (1.1)
 Maintenance of healed EE and relief of heartburn. (1.2)

• Treatment of symptomatic non-erosive gastroesophageal reflux disease (GERD). (1.3) -- DOSAGE AND ADMINISTRATION

Recommended dosage in patients 12 years of age and older

See full prescribing information for complete dosing information for dexlansoprazole delayed-release capsules by indication
and age group and dosage adjustment in patients with hepatic impairment. (2.1, 2.2)

Administration Instructions (2.3): . Take without regard to food.

Swallow whole; do not chew

See full prescribing information for alternative administration options.

. Delayed-Release Capsules: 30 mg and 60 mg. (3) -- CONTRAINDICATIONS

Patients with known hypersensitivity to any component of the formulation. (4) Patients receiving rilpivirine-containing products. (4,7)

-WARNINGS AND PRECAUTIONS-

 Gastric Malignancy: In adults, symptomatic response with dexlansoprazole does not preclude the presence of gastric malignancy. Consider additional follow-up and diagnostic testing. (5.1) Acute Tubulointerstitial Nephritis: Discontinue treatment and evaluate patients. (5.2)

Clostridium difficile-Associated Diarrhea: PPI therapy may be associated with increased risk. (5.3)

FULL PRESCRIBING INFORMATION: CONTENTS'

INDICATIONS AND USAGE

1.1 Healing of Erosive Esophagitis 1.2 Maintenance of Healed Erosive Esophagitis and Relief of Heartburn
 1.3 Treatment of Symptomatic Non-Erosive Gastroesophageal Reflux Disease

DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage in Patients 12 Years of Age and Older
 2.2 Dosage Adjustment in Patients with Hepatic Impairment for the Healing of Erosive Esophagitis

2.3 Important Administration Information

DOSAGE FORMS AND STRENGTHS

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5.4 Bone Fracture 5.5 Severe Cutaneous Adverse Reactions

5.6 Cutaneous and Systemic Lupus Erythematosus5.7 Cyanocobalamin (Vitamin B12) Deficiency

5.8 Hypomagnesemia and Mineral Metabolism 5.9 Interactions with Investigations for Neuroendocrine Tumors 5.10 Interaction with Methotrexate

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6.1 Clinical Trials Experience6.2 Postmarketing Experience

FULL PRESCRIBING INFORMATION

Dexlansoprazole delayed-release capsules are indicated in patients 12 years of age and older for healing of all grades of erosive esophagitis (EE) for up to eight weeks.

1 INDICATIONS AND USAGE 1.1 Healing of Erosive Esophagitis

1.2 Maintenance of Healed Erosive Esophagitis and Relief of Heartburn Dexlansoprazole delayed-release capsules are indicated in patients 12 years of age and older to maintain healing of EE and relief

1.3 Treatment of Symptomatic Non-Erosive Gastroesophageal Reflux Disease

of heartburn for up to six months in adults and 16 weeks in patients 12 to 17 years of age.

Dexlansoprazole delayed-release capsules are indicated in patients 12 years of age and older for the treatment of heartburn associated with symptomatic non-erosive gastroesophageal reflux disease (GERD) for four weeks.

2 DOSAGE AND ADMINISTRATION $2.1 \ \ Recommended \ Dosage \ in \ Patients \ 12 \ Years \ of \ Age \ and \ Older$

Table 1: Recommended Dexlansoprazole Delayed-Release Capsules Dosage Regimen by Indication in Patients 12 Years

of Age and Older Dosage of Dexiansoprazole Capsules Indication Duration

Healing of EE One 60 mg capsule once daily Up to 8 weeks Controlled studies did not extend beyond 6 months in adults and 16 weeks in patients Maintenance of Healed EE and Relief of Heartburn One 30 mg capsule once daily. 12 to 17 years of age. Symptomatic Non-Erosive One 30 mg capsule once daily

2.2 Dosage Adjustment in Patients with Hepatic Impairment for the Healing of Erosive Esophagitis For patients with moderate hepatic impairment (Child-Pugh Class B), the recommended dosage is 30 mg dexlansoprazole

delayed-release capsule once daily for up to eight weeks. Dexlansoprazole delayed-release capsule is not recommended in patients with severe hepatic impairment (Child-Pugh Class C) [see Use in Specific Populations (8.6)].

Take without regard to food.

• Missed doses: If a dose is missed, administer as soon as possible. However, if the next scheduled dose is due, do not take the missed dose, and take the next dose on time. Do not take two doses at one time to make up for a missed dose. Swallow whole: do not chew.

For patients who have trouble swallowing capsules, dexlansoprazole delayed-release capsules can be opened and administered with applesauce as follows

Place one tablespoonful of applesauce into a clean container

Open capsule. Sprinkle intact granules on applesauce

4. Swallow applesauce and granules immediately. Do not chew granules. Do not save the applesauce and granules for later

. Alternatively, the capsule can be administered with water via oral syringe or nasogastric (NG) tube. Administration with Water in an Oral Syringe

1. Open the capsule and empty the granules into a clean container with 20 mL of water. Withdraw the entire mixture into a syringe.

 Gently swirl the syringe in order to keep granules from settling.
 Administer the mixture immediately into the mouth. Do not save the water and granule mixture for later use. 5. Refill the syringe with 10 mL of water, swirl gently, and administer

Refill the syringe again with 10 mL of water, swirl gently, and administer.

Administration with Water via a NG Tube (≥16 French) 1. Open the cansule and empty the granules into a clean container with 20 mL of water.

Withdraw the entire mixture into a catheter-tip syringe. 3. Swirl the catheter-tip syringe gently in order to keep the granules from settling, and immediately inject the mixture through

the NG tube into the stomach. Do not save the water and granule mixture for later use. Refill the catheter-tip syringe with 10 mL of water, swirl gently, and flush the tube.

5. Refill the catheter-tip syringe again with 10 mL of water, swirl gently, and administer.

3 DOSAGE FORMS AND STRENGTHS Dexlansoprazole Delayed-Release Capsules

• 30 mg; strength is an opaque, white capsule with "par" imprinted on the cap and "147" imprinted on the body . 60 mg: strength is an opaque, green capsule with "par" imprinted on the cap and "148" imprinted on the body

Dexlansoprazole delayed-release capsules are contraindicated in patients with known hypersensitivity to any component of the formulation [see Description (11)]. Hypersensitivity reactions may include anaphylaxis, anaphylactic shock, angioedema,

bronchospasm, acute tubulointerstitial nephritis and urticaria [see Warnings and Precautions (5.2), Adverse Reactions (6)]. PPIs, including dexlansoprazole delayed-release capsules, are contraindicated with rilpivirine-containing products [see Drug]

Interactions (7)]. 5 WARNINGS AND PRECAUTIONS

Dexlansoprazole Delayed-Release Capsules, 60 mg contain FD&C Yellow # 5 (tartrazine) which may cause allergic-type reactions (including bronchial asthma) in certain susceptible persons. Although the overall incidence of FD&C Yellow # 5 (tartrazine)

sensitivity in the general population is low, it is frequently seen in patients who also have aspirin hypersensitivity

In adults, symptomatic response to therapy with dexlansoprazole does not preclude the presence of gastric malignancy. Consider additional follow-up and diagnostic testing in adult patients who have a suboptimal response or an early symptomatic relapse after completing treatment with a PPI. In older patients, also consider an endoscopy.

5.2 Acute Tubulointerstitial Nephritis Acute tubulointerstitial nephritis (TIN) has been observed in patients taking PPIs and may occur at any point during PPI therapy.

Patients may present with varying signs and symptoms from symptomatic hypersensitivity reactions to non-specific symptoms

of decreased renal function (e.g., malaise, nausea, anorexia). In reported case series, some patients were diagnosed on biopsy and in the absence of extra-renal manifestations (e.g., fever, rash or arthralgia). Discontinue dexlansoprazole and evaluate patients with suspected acute TIN [see Contraindications (4)]

5.3 Clostridium difficile-Associated Diarrhea

Published observational studies suggest that PPI therapy like dexlansoprazole may be associated with an increased risk of Clostridium difficile-associated diarrhea, especially in hospitalized patients. This diagnosis should be considered for diarrhea that does not improve [see Adverse Reactions (6.2)]. Patients should use the lowest dose and shortest duration of PPI therapy appropriate to the condition being treated

5.4 Bone Fracture Several published observational studies suggest that PPI therapy may be associated with an increased risk for osteoporosis-

multiple daily doses, and long-term PPI therapy (a year or longer). Patients should use the lowest dose and shortest duration of PPI therapy appropriate to the conditions being treated. Patients at risk for osteoporosis-related fractures should be managed according to established treatment guidelines [see Dosage and Administration (2), Adverse Reactions (6.2)] 5.5 Severe Cutaneous Adverse Reactions Severe cutaneous adverse reactions, including Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN), drug

related fractures of the hip, wrist or spine. The risk of fracture was increased in patients who received high-dose, defined as

reaction with eosinophilia and systemic symptoms (DRESS), and acute generalized exanthematous pustulosis (AGEP) have been reported in association with the use of PPIs (see Adverse Reactions (6.2)). Discontinue dexlansoprazole delayed-release capsules at the first signs or symptoms of severe cutaneous adverse reactions or other signs of hypersensitivity and consider further

5.6 Cutaneous and Systemic Lupus Erythematosus

Cutaneous lupus erythematosus (CLE) and systemic lupus erythematosus (SLE) have been reported in patients taking PPIs. These events have occurred as both new onset and an exacerbation of existing autoimmune disease. The majority of PPI-induced lupus erythematosus cases were CLE.

years after continuous drug therapy in patients ranging from infants to the elderly. Generally, histólogical findings were observed without organ involvement. Systemic lupus erythematosus (SLE) is less commonly reported than CLE in patients receiving PPIs. PPI-associated SLE is usually milder than nondrug induced SLE. Onset of SLE typically occurred within days to years after initiating treatment primarily

The most common form of CLE reported in patients treated with PPIs was subacute CLE (SCLE) and occurred within weeks to

in patients ranging from young adults to the elderly. The majority of patients presented with rash; however, arthralgia and Avoid administration of PPIs for longer than medically indicated. If signs or symptoms consistent with CLE or SLE are noted

in patients receiving dexlansoprazole delayed-release capsules, discontinue the drug and refer the patient to the appropriate specialist for evaluation. Most patients improve with discontinuation of the PPI alone in 4 to 12 weeks. Serological testing (e.g., ANA) may be positive and elevated serological test results may take longer to resolve than clinical manifestations. 5.7 Cyanocobalamin (Vitamin B12) Deficiency

Daily treatment with any acid-suppressing medications over a long period of time (e.g., longer than three years) may lead to

malabsorption of cyanocobalamin (Vitamin B12) caused by hypo- or achlorhydria. Rare reports of cyanocobalamin deficiency occurring with acid-suppressing therapy have been reported in the literature. This diagnosis should be considered if clinical symptoms consistent with cyanocobalamin deficiency are observed in patients treated with dexlansoprazole 5.8 Hypomagnesemia and Mineral Metabolism

Hypomagnesemia, symptomatic and asymptomatic, has been reported rarely in patients treated with PPIs for at least three

months, in most cases after a year of therapy. Serious adverse events include tetany, arrhythmias, and seizures. Hypomagnesemia may lead to hypocalcemia and/or hypokalemia and may exacerbate underlying hypocalcemia in at-risk patients. In most patients, reatment of hypomagnesemia required magnesium replacement and discontinuation of the PPL For patients expected to be on prolonged treatment or who take PPIs with medications such as digoxin or drugs that may cause

hypomagnesemia (e.g., diuretics), health care professionals may consider monitoring magnesium levels prior to initiation of PPI reatment and periodically [see Adverse Reactions (6.2)]. Consider monitoring magnesium and calcium levels prior to initiation of dexlansoprazole delayed-release capsules and periodically while on treatment in patients with a preexisting risk of hypocalcemia (e.g., hypoparathyroidism). Supplement with magnesium and/or calcium as necessary. If hypocalcemia is refractory to treatment, consider discontinuing the PPI.

5.9 Interactions with Investigations for Neuroendocrine Tumors Serum chromogranin A (CgA) levels increase secondary to drug-induced decreases in gastric acidity. The increased CgA level

may cause false positive results in diagnostic investigations for neuroendocrine tumors. Healthcare providers should temporarily stop dexlansoprazole treatment at least 14 days before assessing CgA levels and consider repeating the test if initial CgA levels are high. If serial tests are performed (e.g., for monitoring), the same commercial laboratory should be used for testing, as reference ranges between tests may vary [see Drug Interactions (7), Clinical Pharmacology (12.2)]. Literature suggests that concomitant use of PPIs with methotrexate (primarily at high dose) may elevate and prolong serum levels

5.10 Interaction with Methotrexate

[see Use in Specific Populations (8.4)].

of methotrexate and/or its metabolite, possibly leading to methotrexate toxicities. In high-dose methotrexate administration, a temporary withdrawal of the PPI may be considered in some patients [see Drug Interactions (7)]. 5.11 Fundic Gland Polyps PPI use is associated with an increased risk of fundic gland polyps that increases with long-term use, especially beyond one year.

Most PPI users who developed fundic gland polyps were asymptomatic and fundic gland polyps were identified incidentally on

endoscopy. Use the shortest duration of PPI therapy appropriate to the condition being treated 5.12 Risk of Heart Valve Thickening in Pediatric Patients Less Than Two Years of Age is not recommended in pediatric patients less than two years of lansoprazole have demonstrated an adverse effect of heart valve thickening. Dexlansoprazole is the R-enantiomer of lansoprazole . Bone Fracture: Long-term and multiple daily dose PPI therapy may be associated with an increased risk for osteoporosis

<u>sourier tracture.</u> Congretini and under the properties of the hip, wrist or spine. (5.4)

Severe Cutaneous Adverse Reactions: Discontinue at the first signs or symptoms of severe cutaneous adverse reactions or other signs of hypersensitivity and consider further evaluation. (5.5)

<u>Cutaneous and Systemic Lupus Erythematosus</u>: Mostly cutaneous; new onset or exacerbation of existing disease; discontinue

dexlansoprazole delayed-release capsules and refer to specialist for evaluation. (5.6) Cyanocobalamin (Vitamin B12) Deficiency: Daily long-term use (e.g., longer than 3 years) may lead to malabsorption or a deficiency of cyanocobalamin. (5.7)

Hypomagnesemia and Mineral Metabolism: Reported rarely with prolonged treatment with PPIs. (5.8)
<a href="https://linearing.com/in/apic/linearing/ enterochromaffin-like cell hyperplasia and increased chromogranin A levels which may interfere with diagnostic investigations Interaction with Methotrexate: Concomitant use with PPIs may elevate and/or prolong serum concentrations of methotrexate

and/or its metabolite, possibly leading to toxicity. With high-dose methotrexate administration, consider a temporary withdrawal of dexlansoprazole delayed-release capsules. (5.10, 7)

Fundic Gland Polyps: Risk increases with long-term use, especially beyond 1 year. Use the shortest duration of therapy. (5.11) Risk of Heart Valve Thickening in Pediatric Patients Less than Two Years of Age: Dexlansoprazole is not recommended in pediatric patients less than 2 years of age. (5.12, 8.4)

---ADVERSE REACTIONS

 Adults (≥2%): diarrhea, abdominal pain, nausea, upper respiratory tract infection, vomiting, and flatulence. (6.1)
 Patients 12 to 17 years of age (≥5%): headache, abdominal pain, diarrhea, nasopharyngitis, and oropharyngeal pain. (6.1) To report SUSPECTED ADVERSE REACTIONS, contact Par Pharmaceutical at 1-800-828-9393 or FDA at 1-800-FDA-1088 or

---DRUG INTERACTIONS-See full prescribing information for a list of clinically important drug interactions. (7) ---USE IN SPECIFIC POPULATIONS

<u>Pregnancy</u>: Based on animal data, may cause adverse effects on fetal bone growth and development. (8.1)
<u>Pediatrics</u>: Based on data with lansoprazole, dexlansoprazole is not effective in patients with symptomatic GERD 1 month to less than 1 year of age and nonclinical studies have demonstrated adverse effects in juvenile rats. (8.4) See 17 for PATIENT COUNSELING INFORMATION and Medication Guide

DRUG INTERACTIONS

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14.3 Treatment of Symptomatic Non-Erosive GERD in Adults 14.4 Pediatric GERD

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and 1,363 patients on lansoprazole 30 mg once daily.

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

6 ADVERSE REACTIONS

The following serious adverse reactions are described below and elsewhere in labeling · Acute Tubulointerstitial Nephritis [see Warnings and Precautions (5.2)]

Clostridium difficile-Associated Diarrhea [see Warnings and Precautions (5.3)] Bone Fracture [see Warnings and Precautions (5.4)] Severe Cutaneous Adverse Reactions [see Warnings and Precautions (5.5)]

Cutaneous and Systemic Lupus Erythematosus (see Warnings and Precautions (5.6)]
Cyanocobalamin (Vitamin B12) Deficiency [see Warnings and Precautions (5.7)] Hypomagnesemia and Mineral Metabolism [see Warnings and Precautions (5.8)]
Fundic Gland Polyps [see Warnings and Precautions (5.11)]
Risk of Heart Valve Thickening in Pediatric Patients Less than Two Years of Age [see Warnings and Precautions (5.12)]

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.

Adults The safety of dexlansoprazole was evaluated in 4,548 adult patients in controlled and single-arm clinical trials, including 863 patients treated for at least six months and 203 patients treated for one year. Patients ranged in age from 18 to 90 years (median age 48 years), with 54% female, 85% Caucasian, 8% Black, 4% Asian, and 3% Other races. Six randomized controlled clinical trials were conducted for the treatment of EE, maintenance of healed EE, and symptomatic GERD, which included 896 patients on placebo, 455 patients on dexlansoprazole 30 mg capsules, 2,218 patients on dexlansoprazole 60 mg capsules,

Common Adverse Reactions The most common adverse reactions ($\geq 2\%$) that occurred at a higher incidence for dexlansoprazole capsules than placebo in the controlled studies are presented in *Table 2*.

Table 2: Common Adverse Reactions in Controlled Studies in Adults Placebo Dexiansonrazole Dexlansoprazole Dexlansoprazole Lansoprazole 30 mg capsules 30 mg 60 ma Total (N=1,363)(N=896) (N=455)(N=2,218) (N=2,621)Reaction Diarrhea 2.9 5.1 4.7 4.8 3.2 Abdominal Pain 3.5 3.5 2.6 2.6 3.3 2.8 2.9 1.8 Nausea 8.0 2.9 1.7 1.9 0.8 Upper Respiratory Tract Infection 1.6 1.1 0.8 2.2 1.4 Vomiting

Adverse Reactions Resulting in Discontinuation In controlled clinical studies, the most common adverse reaction leading to discontinuation from dexlansoprazole was diarrhea (0.7%).

1.4

2.6

1.6

1.2

Less Common Adverse Reactions Other adverse reactions that were reported in controlled studies at an incidence of less than 2% are listed below by body system:

Eye Disorders: eye irritation, eye swelling

0.6

Flatulence

Blood and Lymphatic System Disorders: anemia, lymphadenopathy Cardiac Disorders: angina, arrhythmia, bradycardia, chest pain, edema, myocardial infarction, palpitation, tachycardia Ear and Labyrinth Disorders: ear pain, tinnitus, vertigo Endocrine Disorders: goiter

hypermotility disorders, GERD, GI ulcers and perforation, hematemesis, hematochezia, hemorrhoids, impaired gastric emptying, irritable bowel syndrome, mucus stools, oral mucosal blistering, painful defecation, proctitis, paresthesia oral, rectal hemorrhage,

Gastrointestinal Disorders: abdominal discomfort, abdominal tenderness, abnormal feces, anal discomfort, Barrett's esophagus

bezoar, bowel sounds abnormal, breath odor, colitis microscopic, colonic polyp, constipation, dry mouth, duodenitis, dyspepsia,

dysphagia, enteritis, eructation, esophagitis, gastric polyp, gastritis, gastroenteritis, gastrointestinal disorders, gastrointestinal

General Disorders and Administration Site Conditions: adverse drug reaction, asthenia, chest pain, chills, feeling abnormal inflammation, mucosal inflammation, nodule, pain, pyrexia Hepatobiliary Disorders: biliary colic, cholelithiasis, hepatomegaly

Immune System Disorders: hypersensitivity

Infections and Infestations: candida infections, influenza, nasopharyngitis, oral herpes, pharyngitis, sinusitis, viral infection, vulvo-vaginal infection Injury, Poisoning and Procedural Complications: falls, fractures, joint sprains, overdose, procedural pain, sunburn Laboratory Investigations: ALP increased, ALT increased, AST increased, bilirubin decreased/increased, blood creatinine

increased, blood gastrin increased, blood glucose increased, blood potassium increased, liver function test abnormal, platelet count decreased, total protein increased, weight increase Metabolism and Nutrition Disorders: appetite changes, hypercalcemia, hypokalemia

Musculoskeletal and Connective Tissue Disorders: arthralgia, arthritis, muscle cramps, musculoskeletal pain, myalgia Nervous System Disorders: altered taste, convulsion, dizziness, headaches, migraine, memory impairment, paresthesia, psychomotor hyperactivity, tremor, trigeminal neuralgia

Psychiatric Disorders: abnormal dreams, anxiety, depression, insomnia, libido changes Renal and Urinary Disorders: dysuria, micturition urgency Reproductive System and Breast Disorders: dysmenorrhea, dyspareunia, menorrhagia, menstrual disorder

Respiratory, Thoracic and Mediastinal Disorders: aspiration, asthma, bronchitis, cough, dyspnea, hiccups, hyperventilation, respiratory tract congestion, sore throat Skin and Subcutaneous Tissue Disorders: acne, dermatitis, erythema, pruritus, rash, skin lesion, urticaria Vascular Disorders: deep vein thrombosis, hot flush, hypertension Additional adverse reactions that were reported in a long-term single-arm trial and were considered related to dexlansoprazole by

the treating physician included: anaphylaxis, auditory hallucination, B-cell lymphoma, bursitis, central obesity, cholecystitis acute. dehydration, diabetes mellitus, dysphonia, epistaxis, folliculitis, gout, herpes zoster, hyperlipidemia, hypothyroidism, increased neutrophils, MCHC decrease, neutropenia, rectal tenesmus, restless legs syndrome, somnolence, tonsillitis Pediatrics

The safety of dexlansoprazole was evaluated in controlled and single-arm clinical trials including 166 pediatric patients, 12 to

17 years of age for the treatment of symptomatic non-erosive GERD, healing of EE, maintenance of healed EE and relief of heartburn [see Clinical Studies (14.4)]. The adverse reaction profile was similar to that of adults. The most common adverse reactions that occurred in ≥5% of patients were headache, abdominal pain, diarrhea, nasopharyngitis and oropharyngeal pain.

See the full prescribing information for lansoprazole for other adverse reactions not observed with dexlansoprazole 6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of dexlansoprazole. 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. Blood and Lymphatic System Disorders: autoimmune hemolytic anemia, idiopathic thrombocytopenic purpura

Ear and Labyrinth Disorders: deafness Eve Disorders: blurred vision

General Disorders and Administration Site Conditions: facial edema Hepatobiliary Disorders: drug-induced hepatitis Immune System Disorders: anaphylactic shock (requiring emergency intervention), exfoliative dermatitis, SJS/TEN (some fatal),

Gastrointestinal Disorders: oral edema, pancreatitis, fundic gland polyps

Nervous System Disorders: cerebrovascular accident, transient ischemic attack

Infections and Infestations: Clostridium difficile-associated diarrhea Metabolism and Nutrition Disorders: hypomagnesemia, hypocalcemia, hypokalemia, hyponatremia

Renal and Urinary Disorders: acute renal failure Respiratory, Thoracic and Mediastinal Disorders; pharyngeal edema, throat tightness Skin and Subcutaneous Tissue Disorders: generalized rash, leukocytoclastic vasculitis

Musculoskeletal System Disorders: bone fracture

Other Adverse Reactions

DRESS, AGER

Tables 3 and 4 include drugs with clinically important drug interactions and interaction with diagnostics when administered concomitantly with dexlansoprazole and instructions for preventing or managing them. Consult the labeling of concomitantly used drugs to obtain further information about interactions with PPIs

Table 3: Clinically Relevant Interactions Affecting Drugs Coadministered with Dexlansoprazole and Interactions with Diagnostics The effect of PPIs on antiretroviral drugs is variable. The clinical importance and the mechanisms behind these interactions are not always known.

• Decreased exposure of some antiretroviral drugs (e.g., rilpivirine, atazanavir, and nelfinavir) when used concomitantly with dexlansoprazole may reduce antiviral effect and promote the development of drug resistance. Clinical Impact Increased exposure of other antiretroviral drugs (e.g., saguinavir) when used concomitantly

with dexlansoprazole may increase toxicity of the antiretroviral drugs.

There are other antiretroviral drugs which do not result in clinically relevant interactions with dexlansoprazole. Rilpivirine-containing products: Concomitant use with dexlansoprazole is contraindicated [se Contraindications (4)1. See prescribing information. Atazanavir: See prescribing information for atazanavir for dosing information.

Nelfinavir: Avoid concomitant use with dexlansoprazole. See prescribing information for nelfinavir Intervention

Saquinavir: See the prescribing information for saquinavir and monitor for potential saquinavir

Warfarin Increased INR and prothrombin time in patients receiving PPIs and warfarin concomitantly Clinical Impact: Increases in INR and prothrombin time may lead to abnormal bleeding and even death. Intervention: INR range. See prescribing information for warfarin.

Other antiretrovirals: See prescribing information

Table 3: Clinically Rele Diagnostics Continu	vant Interactions Affecting Drugs Coadministered with Dexlansoprazole and Interactions with ned
Methotrexate	
Clinical Impact:	Concomitant use of PPIs with methotrexate (primarily at high dose) may elevate and prolong serum concentrations of methotrexate and/or its metabolite hydroxymethotrexate, possibly leading to methotrexate toxicities. No formal drug interaction studies of high-dose methotrexate with PPIs have been conducted [see Warnings and Precautions (5.10)].
Intervention:	A temporary withdrawal of dexlansoprazole may be considered in some patients receiving high-dose methotrexate.
Digoxin	
Clinical Impact:	Potential for increased exposure of digoxin.
Intervention:	Monitor digoxin concentrations. Dose adjustment of digoxin may be needed to maintain therapeutic drug concentrations. See prescribing information for digoxin.
Drugs Dependent on Ga ketoconazole/itraconazo	stric pH for Absorption (e.g., iron salts, erlotinib, dasatinib, nilotinib, mycophenolate mofetil, le)
Clinical Impact:	Dexlansoprazole can reduce the absorption of other drugs due to its effect on reducing intragastric acidity. $ \\$
Intervention:	Mycophenolate mofetil (MMF): Coadministration of PPIs in healthy subjects and in transplant patients receiving MMF has been reported to reduce the exposure to the active metabolite, mycophenolic acid (MPA), possibly due to a decrease in MMF solubility at an increased gastric pH. The clinical relevance of reduced MPA exposure on organ rejection has not been established in transplant patients receiving dexlansoprazole and MMF. Use dexlansoprazole with caution in transplant patients receiving MMF.

Clinical Impact or poor metabolizers of CYP2C19. Monitor tacrolimus whole blood trough concentrations. Dose adjustment of tacrolimus may be needed to maintain therapeutic drug concentrations. See prescribing information for tacrolimus. Interactions with Investigations of Neuroendocrine Tumors CgA levels increase secondary to PPI-induced decreases in gastric acidity. The increased CgA Clinical Impact evel may cause false positive results in diagnostic investigations for neuroendocrine tumors [see Warnings and Precautions (5.9), Clinical Pharmacology (12.2)]. Temporarily stop dexlansoprazole treatment at least 14 days before assessing CgA levels and consider repeating the test if initial CgA levels are high. If serial tests are performed (e.g., for

Tacrolimus

Intervention.

Revised: 10/2022

See the prescribing information for other drugs dependent on gastric pH for absorption

Potentially increased exposure of tacrolimus, especially in transplant patients who are inte

monitoring), the same commercial laboratory should be used for testing, as reference ranges between tests may vary. Interaction with Secretin Stimulation Test Hyper-response in gastrin secretion in response to secretin stimulation test, falsely suggesting Clinical Impact Temporarily stop dexlansoprazole treatment at least 30 days before assessing to allow gastrin Intervention levels to return to baseline [see Clinical Pharmacology (12.2)]

False Positive Urine Tests for THC There have been reports of false positive urine screening tests for tetrahydrocannabinol (THC) in Clinical Impact An alternative confirmatory method should be considered to verify positive results. Table 4: Clinically Relevant Interactions Affecting Dexlansoprazole When Coadministered with Other Drugs and CYP2C19 or CYP3A4 Inducers

Decreased exposure of dexlansoprazole when used concomitantly with strong inducers [see Clinical Pharmacology (12.3)]. St. John's Wort, rifampin: Avoid concomitant use with dexlansoprazole Intervention Ritonavir-containing products: See prescribing information CYP2C19 or CYP3A4 Inhibitors ncreased exposure of dexlansoprazole is expected when used concomitantly with strong inhibitors Clinical Impact [see Clinical Pharmacology (12.3)]. Intervention Voriconazole: See prescribing information 8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy

the maximum recommended human dexlansoprazole dose produced reductions in the offspring in femur weight, femur length, crown-rump length and growth plate thickness (males only) on postnatal Day 21 (see Data). These effects were associated with reduction in body weight gain. Advise pregnant women of the potential risk to the fetus The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the US 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.

There are no studies with dexlansoprazole use in pregnant women to inform a drug-associated risk. Dexlansoprazole is the

R-enantiomer of lansoprazole, and published observational studies of lansoprazole use during pregnancy did not demonstrate an

In animal reproduction studies, oral administration of lansoprazole to rats during organogenesis through lactation at 1.8 times

association of adverse pregnancy-related outcomes with lansoprazole (see Data).

Dexlansoprazole is the R-enantiomer of lansoprazole. Available data from published observational studies failed to demonstrate an association of adverse pregnancy-related outcomes and lansoprazole use. Methodological limitations of these observational studies cannot definitely establish or exclude any drug-associated risk during pregnancy. In a prospective study by the European Network of Teratology Information Services, outcomes from a group of 62 pregnant women administered median daily doses of 30 mg of lansoprazole were compared to a control group of 868 pregnant women who did not take any PPIs. There was no difference in the rate of major malformations between women exposed to PPIs and the control group, corresponding to a Relative Risk (RR)=1.04, [95% Confidence Interval (CI) 0.25 to 4.21]. In a population-based retrospective cohort study covering all live births in Denmark from 1996 to 2008, there was no significant increase in major birth defects during analysis of first trimester exposure to lansoprazole in 794 live births. A meta-analysis that compared 1,530 pregnant women exposed to PPIs in at least the first trimester with 133,410 unexposed pregnant women showed no significant increases in risk for congenital malformations

or spontaneous abortion with exposure to PPIs (for major malformations Odds Ratio (OR)=1.12, [95% CI 0.86 to 1.45] and for

spontaneous abortions OR=1.29, [95% CI 0.84 to 1.97]). Animal Data times the maximum recommended human dexlansoprazole dose [60 mg/day] based on body surface area) during organogenesis showed no effects on fetuses due to dexlansoprazole. In addition, embryo-fetal development studies performed in rats with oral ansoprazole at doses up to 150 mg/kg/day (40 times the recommended human lansoprazole dose based on body surface area) during organogenesis and in rabbits with oral lansoprazole at doses up to 30 mg/kg/day (16 times the recommended human

lansoprazole dose based on body surface area) during organogenesis revealed no effects on fetuses due to lansoprazole.

A pre- and postnatal developmental toxicity study in rats with additional endpoints to evaluate bone development was performed with lansoprazole at oral doses of 10 to 100 mg/kg/day (0.2 to 1.8 times the maximum recommended human dexlansoprazole dose of 60 mg based on dexlansoprazole AUC (area under the plasma concentration-time curve)) administered during organogenesis through lactation. Maternal effects observed at 100 mg/kg/day (1.8 times the maximum recommended human dexiansoprazole dose of 60 mg based on dexiansoprazole AUC) included increased gestation period, decreased body weight gain during gestation, and decreased food consumption. The number of stillbirths was increased at this dose, which may have been secondary to maternal toxicity. Body weight of pups was reduced at 100 mg/kg/day starting on postnatal Day 11. Femur weight, femur length, and crown-rump length were reduced at 100 mg/kg/day on postnatal Day 2.F. Femur weight was still decreased in the 100 mg/kg/day group at age 17 to 18 weeks. Growth plate thickness was decreased in the 100 mg/kg/day males on postnatal Day 21, and was increased in the 30 and 100 mg/kg/day males at age 17 to 18 weeks. The effects on bone parameters were associated with reduction in body weight gain.

on milk production. However, lansoprazole and its metabolites are present in rat milk. The developmental and health benefits of

8.2 Lactation

Risk Summary

breastfeeding should be considered along with the mother's clinical need for dexlansoprazole and any potential adverse effects on the breastfed child from dexlansoprazole or from the underlying maternal condition. 8.4 Pediatric Use The safety and effectiveness of dexlansoprazole have been established in pediatric patients 12 years to 17 years of age for the healing of all grades of EE, the maintenance of healed EE and relief of heartburn, and treatment of heartburn associated with

symptomatic non-erosive GERD. Use of dexlansoprazole in this age group is supported by evidence from adequate and well-controlled studies of dexlansoprazole in adults with additional safety, efficacy and pharmacokinetic data in pediatric patients 12 to

There is no information regarding the presence of dexlansoprazole in human milk, the effects on the breastfed infant, or the effects

17 years of age. The adverse reaction profile in patients 12 to 17 years of age was similar to adults [see Dosage and Administration (2.1), Adverse Reactions (6.1), Clinical Pharmacology (12.3), Clinical Studies (14)]. The safety and effectiveness of dexlansoprazole have not been established in pediatric patients less than 12 years of age.

Dexlansoprazole is not recommended in pediatric patients less than two years of age [see Warnings and Precautions (5.12)] Nonclinical studies in juvenile rats treated with lansoprazole (the racemic mixture) have demonstrated adverse effects of heart valve thickening and bone changes at dexlansoprazole exposures which are expected to be similar to or higher than the dexlansoprazole exposure in pediatric patients one year to two years of age, as described below in Juvenile Animal Toxicity Data. The use of dexiansoprazole is not recommended for the treatment of symptomatic GERD in pediatric patients one month to less than one year of age because lansoprazole was not shown to be effective in a multicenter, double-blind controlled trial.

Heart Valve Thickening

Bone Changes

Juvenile Animal Toxicity Data

In two oral toxicity studies, thickening of the mitral heart valve occurred in juvenile rats treated with lansoprazole, Heart valve thickening was observed primarily with oral dosing initiated on postnatal Day 7 (age equivalent to neonatal humans) and postnatal Day 14 (human age equivalent of approximately one year) at doses of 250 mg/kg/day and higher (at postnatal Day 7 and postnatal Day 14 respectively, 2.5 and 1.8 times the expected dexlansoprazole exposure based on AUC in pediatric patients one year to two years of age). The treatment durations associated with heart valve thickening ranged from 5 days to 8 weeks. The findings reversed or trended towards reversibility after a 4-week drug-free recovery period. The incidence of heart valve thickening after initiation of dosing on postnatal Day 21 (human age equivalent of approximately two years) was limited to a single rat (1/24) in groups given 500 mg/kg/day for 4 or 8 weeks (2.1 times the expected dexlansoprazole exposure based on AUC in pediatric patients one year to two years of age). Based on the low incidence of heart valve thickening in 21-day old rats and the equivalent human age, the risk of heart valve injury does not appear to be relevant to patients two years of age and older.

In an eight-week oral toxicity study of lansoprazole in juvenile rats with dosing initiated on postnatal Day 7, doses equal to or

greater than 100 mg/kg/day (dexlansoprazole exposure based on AUC approximately equal to that in pediatric patients one year to

Of the total number of patients (n=4,548) in clinical studies of dexlansoprazole, 11% of patients were aged 65 years and over,

while 2% were 75 years and over. No overall differences in safety or effectiveness were observed between these patients and

two years of age) produced delayed growth, with impairment of weight gain observed as early as postnatal Day 10 (age equivalent to neonatal humans). At the end of treatment, the signs of impaired growth at 100 mg/kg/day and higher included reductions in body weight (14 to 44% compared to controls), absolute weight of multiple organs, femur weight, femur length and crown-rump length. Femral growth plate thickness was reduced only in males and only at the 500 mg/kg/day dose. The effects related to delayed growth persisted through the end of the four-week recovery period. Longer term data were not collected. 8.5 Geriatric Use

younger patients and other reported clinical experience has not identified significant differences in responses between geriatric and younger patients, but greater sensitivity of some older individuals cannot be ruled out [see Clinical Pharmacology (12.3)]. 8.6 Hepatic Impairment

No dosage adjustment for dexlansoprazole delayed-release capsules is necessary for patients with mild hepatic impairmen (Child-Pugh Class A). In a study of adult patients with moderate hepatic impairment (Child-Pugh Class B) who received a single dose of 60 mg dexlansoprazole, there was a significant increase in systemic exposure of dexlansoprazole compared to healthy subjects with normal hepatic function [see Clinical Pharmacology (12.3)]. Therefore, for patients with moderate hepatic impairment (Child-

Pugh Class B), dosage reduction is recommended for the healing of EE [see Dosage and Administration (2.2)]. No studies have been conducted in patients with severe hepatic impairment (Child-Pugh Class C); the use of dexlansoprazole delayed-release capsules is not recommended for these patients [see Dosage and Administration (2,2)]

dose of dexlansoprazole 300 mg did not result in death or other severe adverse events. However, serious adverse events of hypertension have been reported in association with twice daily doses of dexlansoprazole 60 mg. Nonserious adverse reactions observed with twice daily doses of dexlansoprazole 60 mg include hot flashes, contusion, oropharyngeal pain, and weight loss. Dexlansoprazole is not expected to be removed from the circulation by hemodialysis In the event of over-exposure, treatment should be symptomatic and supportive.

O Ш

is practically insoluble in water, freely soluble in dimethylformamide, soluble in methanol, slightly soluble in ethyl acetate and acetonitrile, practically insoluble in hexane.

Dexlansoprazole is supplied for oral administration as a dual delayed-release formulation in capsules. The capsules contain dexlansoprazole in a mixture of two types of enteric-coated granules with different pH-dependent dissolution profiles [see Clinical

Dexlansoprazole delayed-release capsules are available in two dosage strengths: 30 and 60 mg, per capsule. Each capsule contains enteric-coated granules consisting of dexlansoprazole (active ingredient) and the following inactive ingredients: calcium hydroxide, colloidal silicon dioxide, hydroxypropyl cellulose, hypromellose, mannitol, methacrylic acid and ethyl acrylate copolymer, methacrylic acid copolymer type B, polyethylene glycol, polysorbate 80, sodium lauryl sulfate, sugar spheres, talc and triethyl citrate. The black imprinting ink contains: ammonium hydroxide, iron oxide black, isopropyl alcohol, N-butyl alcohol, propylene glycol and shellac glaze in ethanol. The capsule shells contain hypromellose and titanium dioxide. In addition 60 mg contain FD&C Blue #1, FD&C Yellow #5*, and FD&C Yellow #6.

There have been no reports of significant overdose with dexlansoprazole. Multiple doses of dexlansoprazole 120 mg and a single If over-exposure occurs, call your poison control center at 1-800-222-1222 for current information on the management of The active ingredient in dexlansoprazole delayed-release capsules, a proton pump inhibitor, is (+)-2-[(R)-[(3-methyl-4-(2,2,2-trifluoroethoxy)pyridin-2-yl] methyll sulfinyl]-1H-benzimidazole, a compound that inhibits gastric acid secretion. Dexlansoprazole

10 OVERDOSAGE

poisoning or over-exposure.

11 DESCRIPTION

is the R-enantiomer of lansoprazole (a racemic mixture of the R- and S-enantiomers). Its molecular formula is: $C_{16}H_{14}F_2N_2O_2S$, with a molecular weight of 369.36. Dexlansoprazole has the following chemical structure

Dexlansoprazole is stable when exposed to light. Dexlansoprazole is more stable in neutral and alkaline conditions than acidic conditions.

*60 mg capsule contains FD&C Yellow No. 5 (tartrazine) [see Warnings and Precautions (5)].

12 CLINICAL PHARMACOLOGY

Dexlansoprazole belongs to a class of antisecretory compounds, the substituted benzimidazoles, that suppress gastric acid secretion by specific inhibition of the (H+, K+)-ATPase at the secretory surface of the gastric parietal cell. Because this enzyme is regarded as the acid (proton) pump within the parietal cell, dexlansoprazole has been characterized as a gastric proton-pump inhibitor, in that it blocks the final step of acid production.

Antisecretory Activity

The effects of dexlansoprazole 60 mg capsules (n=20) or lansoprazole 30 mg (n=23) once daily for five days on 24 hour

le 5: Effect on 24 Hour Intragastric pH on Day 5 After Ad	ministration of Dexlansoprazole or Lansoprazole
Dexiansoprazole 60 mg capsules	Lansoprazole 30 mg
Mean Intr	agastric pH
4.55	4.13
% Time Intragas	stric pH > 4 (hours)
71	60
(17 hours)	(14 hours)

azole on serum gastrin concentrations was evaluated in approximately 3,460 patients in clinical trials up to eight weeks and in 1,023 patients for up to six to 12 months. The mean fasting gastrin concentrations increased from baseline during treatment with dexlansoprazole 30 mg and 60 mg capsules. In patients treated for more than six months, mean serum gastrin levels increased during approximately the first three months of treatment and were stable for the remainder of treatment.

Mean serum gastrin levels returned to pretreatment levels within one month of discontinuation of treatment. Increased gastrin causes enterochromaffin-like cell hyperplasia and increased serum CgA levels. The increased CgA levels may cause false positive results in diagnostic investigations for neuroendocrine tumors [see Warnings and Precautions (5.9)].

 $There were no reports of ECL cell \ hyperplasia in gastric \ biopsy \ specimens \ obtained \ from \ 653 \ patients \ treated \ with \ dexlans oprazole \ description \ from \ 653 \ patients \ treated \ with \ dexlans oprazole \ from \ 653 \ patients \ treated \ with \ dexlans oprazole \ from \ 653 \ patients \ treated \ with \ dexlans oprazole \ from \ 653 \ patients \ from \ 653 \ pati$

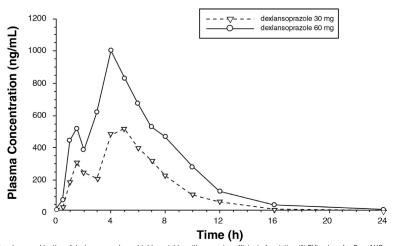
30 mg, 60 mg or 90 mg capsules for up to 12 months. During lifetime exposure of rats dosed daily with up to 150 mg/kg/day of lansoprazole, marked hypergastrinemia was observed

followed by ECL cell proliferation and formation of carcinoid tumors, especially in female rats [see Nonclinical Toxicology (13.1)]. Cardiac Electrophysiology At a dose five times the maximum recommended dose, dexlansop razole does not prolong the QT interval to any clinically relevant to the prolong the QT interval to the QT inter

extent. 12.3 Pha

The dual delayed-release formulation of dexlansoprazole capsules results in a dexlansoprazole plasma concentration-time profile with two distinct peaks; the first peak occurs one to two hours after administration, followed by a second peak within four to five hours (see Figure 1). Dexlansoprazole is eliminated with a half-life of approximately one to two hours in healthy subjects and in patients with symptomatic GERD. No accumulation of dexlansoprazole occurs after multiple, once daily doses of dexlansoprazole 30 mg or 60 mg capsules although mean AUC_t and C_{max} values of dexlansoprazole were slightly higher (less than 10%) on Day 5 than on Day 1.

Figure 1: Mean Plasma Dexlansoprazole Concentration - Time Profile Following Oral Administration of 30 mg or 60 mg Dexlansoprazole Delayed-Release Capsules Once Daily for 5 Days in Healthy Adult Subjects



The pharmacokinetics of dexlansoprazole are highly variable, with percent coefficient of variation (%CV) values for C_{max} , AUC, and

Table 6: Mean (%CV) Pharmacokinetic Parameters for Adult Subjects on Day 5 After Administration of Dexlansoprazole Delayed-Release Capsules					
Dose (mg)	C _{max}	AUC ₂₄	CL/F		
	(ng/mL)	(ng-h/mL)	(L/h)		
30	658 (40%)	3,275 (47%)	11.4 (48%)		
	(N=44)	(N=43)	(N=43)		
60	1,397 (51%)	6,529 (60%)	11.6 (46%)		
	(N=79)	(N=73)	(N=41)		

After oral administration of dexlansoprazole 30 mg or 60 mg capsules to healthy subjects and symptomatic GERD patients, mean

 C_{max} and AUC values of dexlansoprazole increased approximately dose proportionally (see Figure 1). When granules of dexlansoprazole 60 mg capsules are mixed with water and dosed via NG tube or orally via syringe, the bioavailability (C_{max} and AUC) of dexlansoprazole was similar to that when dexlansoprazole 60 mg was administered as an intact capsule [see Dosage and Administration (2.3)].

In food-effect studies in healthy subjects receiving dexlansoprazole capsules under various fed conditions compared to fasting, increases in C_{\max} ranged from 12 to 55%, increases in AUC ranged from 9 to 37%, and T_{\max} varied (ranging from a decrease of 0.7 hours to an increase of three hours) [see Dosage and Administration (2.3)].

Effect on Food

Plasma protein binding of dexlansoprazole ranged from 96 to 99% in healthy subjects and was independent of concentrations. $from \ 0.01 \ to \ 20 \ mcg/mL. \ The \ apparent \ volume \ of \ distribution \ (V_{\slashed}/F) \ after \ multiple \ doses \ in \ symptomatic \ GERD \ patients \ was \ 40 \ L.$

Elimination Metabolism

Dexlansoprazole is extensively metabolized in the liver by oxidation, reduction, and subsequent formation of sulfate, glucuronide and glutathione conjugates to inactive metabolites. Oxidative metabolites are formed by the cytochrome P450 (CYP) enzyme system including hydroxylation mainly by CYP2C19, and oxidation to the sulfone by CYP3A4.

CYP2C19 is a polymorphic liver enzyme which exhibits three phenotypes in the metabolism of CYP2C19 substrates: extensive metabolizers (*1/*1), intermediate metabolizers (*1/mutant) and poor metabolizers (mutant/mutant). Dexlansoprazole is the major circulating component in plasma regardless of CYP2C19 metabolizer status. In CYP2C19 intermediate and extensive metabolizers, the major plasma metabolites are 5-hydroxy dexlansoprazole and its glucuronide conjugate, while in CYP2C19 poor metabolizers dexlansoprazole sulfone is the major plasma metabolite.

Following the administration of dexlansoprazole delayed-release capsules, no unchanged dexlansoprazole is excreted in urine. Following the administration of [14C] dexlansoprazole to six healthy male subjects, approximately 50.7% (standard deviation (SD): 9%) of the administered radioactivity was excreted in urine and 47.6% (SD: 7.3%) in the feces. Apparent clearance (CL/F) in healthy subjects was 11.4 to 11.6 L/h, respectively, after five days of 30 or 60 mg once daily admir Specific Populations

Age: Pediatric Population

The pharmacokinetics of dexlansoprazole in patients under the age of 12 years have not been studied.

Patients 12 to 17 Years of Age

The pharmacokinetics of dexlansoprazole were studied in 36 patients 12 to 17 years of age with symptomatic GERD in a multicenter trial. Patients were randomized to receive dexlansoprazole 30 or 60 mg once daily for seven days. The dexlansoprazole mean C_{max} and AUC in patients 12 to 17 years of age were 105 and 88%, respectively, compared to those observed in adults at the 30 mg dose, and were 81 and 78%, respectively, at the 60 mg dose (see Tables 6 and 7).

Table 7. Mean (%CV) Pharmacokinetic Parameters in Patients 12 to 17 Years of Age with Symptomatic GERD on Day 7 After Administration of Dexlansoprazole Once Daily for 7 Days

Dose	C _{max} (ng/mL)	AUC _{tau} (ng·h/mL)	CL/F (L/h)
30 mg	691	2,886	12.8
(N=17)	(53)	(47)	(48)
60 mg	1,136	5,120	15.3
(N=18)	(51)	(58)	(49)

Age: Geriatric Population

The terminal elimination half-life of dexlansoprazole is significantly increased in geriatric subjects compared to younger subjects (2.2 and 1.5 hours, respectively). Dexlansoprazole exhibited higher systemic exposure (AUC) in geriatric subjects (34% higher) than younger subjects [see Use in Specific Populations (8.5)].

In a study of 12 male and 12 female healthy subjects who received a single dose of dexlansoprazole 60 mg capsules, females had higher systemic exposure (AUC) (43% higher) than males. This difference in exposure between males and females does not represent a significant safety concern Renal Impairment

Dexlansoprazole is extensively metabolized in the liver to inactive metabolites, and no parent drug is recovered in the urine following an oral dose of dexlansoprazole. Therefore, the pharmacokinetics of dexlansoprazole are not expected to be altered in patients with renal impairment, and no studies were conducted in patients with renal impairment. In addition, the pharmacokinetics of lansoprazole were not clinically different in patients with mild, moderate or severe renal impairment compared to healthy subjects with normal renal function.

Hepatic Impairment In a study of 12 patients with moderate hepatic impairment (Child-Pugh Class B) who received a single dose of 60 mg dexlansoprazole capsules, the systemic exposure (AUC) of bound and unbound dexlansoprazole was approximately two times greater compared to subjects with normal hepatic function. This difference in exposure was not due to a difference in protein binding. No studies have been conducted in patients with severe hepatic impairment (Child-Pugh Class C) [see Dosage and Administration (2.2), Use in Specific Populations (8.6)].

Drug-Drug Interactions

Effect of Dexlansoprazole on Other Drugs Cytochrome P 450 Interactions

Dexlansoprazole is metabolized, in part, by CYP2C19 and CYP3A4 [see Clinical Pharmacology (12.3)]. In vitro studies have shown that dexlansoprazole is not likely to inhibit CYP isoforms 1A1, 1A2, 2A6, 2B6, 2C8, 2C9, 2D6,

2ET or 3A4. As such, no clinically relevant interactions with drugs metabolized by these CYP enzymes would be expected. Furthermore, *in vivo* studies showed that dexlansoprazole did not have an impact on the pharmacokinetics of coadministered phenytoin (CYP2C9 substrate) or theophylline (CYP1A2 substrate). The subjects' CYP1A2 genotypes in the drug-drug interaction study with theophylline were not determined. Although *in vitro* studies indicated that dexlansoprazole has the potential to inhibit CYP2C19 in vivo, an in vivo drug-drug interaction study in mainly CYP2C19 extensive and intermediate metabolizers has shown that dexlansoprazole does not affect the pharmacokinetics of diazepam (CYP2C19 substrate)

Clopidogrel

Clopidogrel is metabolized to its active metabolite in part by CYP2C19. A study of healthy subjects who were CYP2C19 extensive metabolizers, receiving once daily administration of clopidogrel 75 mg alone or concomitantly with dexlansoprazole 60 mg capsules (n=40), for nine days was conducted. The mean AUC of the active metabolite of clopidogrel was reduced by approximately 9% (mean AUC ratio was 91%, with 90% CI of 86 to 97%) when dexlansoprazole was coadministered compare to administration of clopidogrel alone. Pharmacodynamic parameters were also measured and demonstrated that the change in inhibition of platelet aggregation (induced by 5 mcM ADP) was related to the change in the exposure to clopidogrel active netabolite. The effect on exposure to the active metabolite of clopidogrel and on clopidogrel-induced platelet inhibition is not considered clinically important

Because dexlansoprazole is metabolized by CYP2C19 and CYP3A4, inducers and inhibitors of these enzymes may potentially alter exposure of dexlansoprazole 12.5 Pharmaconenomics

Effect of Other Drugs on Dexlansoprazole

$\underline{\textbf{Effect of CYP2C19 Polymorphism on Systemic Exposure of Dexlansoprazole}}$

Systemic exposure of dexlansoprazole is generally higher in intermediate and poor metabolizers. In male Japanese subjects who received a single dose of dexlansoprazole 30 mg or 60 mg capsules (N=2 to 6 subjects/group), mean dexlansoprazole C_{\max} and AUC values were up to two times higher in intermediate compared to extensive metabolizers; in poor metabolizers, mean Community was up to four times higher and mean AUC was up to 12 times higher compared to extensive metabolizers. Though such study was not conducted in Caucasians and African Americans, it is expected dexlansoprazole exposure in these races will be affected by CYP2C19 phenotypes as well.

13 NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility The carcinogenic potential of dexlansoprazole was assessed using lansoprazole studies. In two, 24 month carcinogenicity studies, Sprague-Dawley rats were treated orally with lansoprazole at doses of 5 to 150 mg/kg/day, about one to 40 times the exposure on a body surface (mg/m²) basis of a 50 kg person of average height [1.46 m² body surface area (BSA)] given the recommended

human dose of lansoprazole 30 mg/day. Lansoprazole produced dose-related gastric ECL cell hyperplasia and ECL cell carcinoids in both male and female rats [see Clinica Pharmacology (12.2)].

In rats, lansoprazole also increased the incidence of intestinal metaplasia of the gastric epithelium in both sexes. In male rats, lansoprazole produced a dose-related increase of testicular interstitial cell adenomas. The incidence of these adenomas in rats receiving doses of 15 to 150 mg/kg/day (four to 40 times the recommended human lansoprazole dose based on BSA) exceeded the low background incidence (range = 1.4 to 10%) for this strain of rat.

In a 24 month carcinogenicity study, CD-1 mice were treated orally with lansoprazole doses of 15 to 600 mg/kg/day, two to 80 times the recommended human lansoprazole dose based on BSA. Lansoprazole produced a dose-related increased incidence of gastric ECL cell hyperplasia. It also produced an increased incidence of liver tumors (hepatocellular adenoma plus carcinoma). The tumor incidences in male mice treated with 300 and 600 mg lansoprazole/kg/day (40 to 80 times the recommended human lansoprazole dose based on BSA) and female mice treated with 150 to 600 mg lansoprazole/kg/day (20 to 80 times the recommended human lansoprazole dose based on BSA) and female mice treated with 150 to 600 mg lansoprazole/kg/day (20 to 80 times the recommended human lansoprazole dose based on BSA) exceeded the ranges of background incidences in historical controls for this strain of mice. Lansoprazole treatment produced adenoma of rete testis in male mice receiving 75 to 600 mg/kg/day (10 to 80 times the recommended human lansoprazole dose based on BSA).

A 26 week p53 (+/-) transgenic mouse carcinogenicity study of lansoprazole was not positive.

to have no effect on fertility and reproductive performance of male and female rats

Lansoprazole was positive in the Ames test and the in vitro human lymphocyte chromosomal aberration assay. Lansoprazole was not genotoxic in the *ex vivo* rat hepatocyte unscheduled DNA synthesis (UDS) test, the *in vivo* mouse micronucleus test or the rat bone marrow cell chromosomal aberration test.

Dexlansoprazole was positive in the Ames test and in the in vitro chromosome aberration test using Chinese hamster lung cells Dexlansoprazole was negative in the in vivo mouse micronucleus test.

The potential effects of dexlansoprazole on fertility and reproductive performance were assessed using lansoprazole studies. Lansoprazole at oral doses up to 150 mg/kg/day (40 times the recommended human lansoprazole dose based on BSA) was found

14 CLINICAL STUDIES

Two multicenter, double-blind, active-controlled, randomized, eight week studies were conducted in patients with endoscopical confirmed EE. Severity of the disease was classified based on the Los Angeles Classification Grading System (Grades A to D). Patients were randomized to one of the following three treatment groups: Dexlansoprazole 60 mg once daily, dexlansoprazole 90 mg once daily or lansoprazole 30 mg once daily. Patients who were *H. pylori* positive or who had Barrett's Esophagus and/or definite dysplastic changes at baseline were excluded from these studies. A total of 4,092 patients were enrolled and ranged in age from 18 to 90 years (median age 48 years) with 54% male. Race was distributed as follows: 87% Caucasian, 5% Black and 8% Other. Based on the Los Angeles Classification, 71% of patients had mild EE (Grades A and B) and 29% of patients had moderate to severe EE (Grades C and D) before treatment.

The studies were designed to test noninferiority. If noninferiority was demonstrated then superiority would be tested. Although noninferiority was demonstrated in both studies, the finding of superiority in one study was not replicated in the other. The proportion of patients with healed EE at Week 4 or 8 is presented below in Table 8

able 8: EE	Healing Rates* in	Adults: All Grades			
Study	Number of Patients (N) [†]	Treatment Group (daily)	Week 4 % Healed	Week 8‡ % Healed	(95% CI) for the Treatment Difference (Dexlansoprazole– Lansoprazole) by Week 8
1	657	Dexlansoprazole 60 mg capsules	70	87	(-1.5, 6.1) [§]
	648	Lansoprazole 30 mg	65	85	
2	639	Dexlansoprazole 60 mg capsules	66	85	(2.2, 10.5) [§]
	656	Lansoprazole 30 mg	65	79	

CI = Confidence interva

Based on crude rate estimates, patients who did not have endoscopically documented healed EE and prematurely discontinued were considered not healed. Patients with at least one postbaseline endoscopy

[†]Primary efficacy endpoint. [§]Demonstrated noninferiority to lansoprazolo

Dexlansoprazole 90 mg once daily was studied and did not provide additional clinical benefit over dexlansoprazole 60 mg once

14.2 Maintenance of Healed Erosive Esophagitis and Relief of Heartburn in Adult

A multicenter, double-blind, placebo-controlled, randomized study was conducted in patients who successfully completed an EE study and showed endoscopically confirmed healed EE. Maintenance of healing and symptom resolution over a six month period was evaluated with dexlansoprazole 30 mg or 60 mg capsules once daily compared to placebo. A total of 445 patients were enrolled and ranged in age from 18 to 85 years (median age 49 years), with 52% female. Race was distributed as follows: 90% Caucasian, 5% Black and 5% Other.

Sixty-six percent of patients treated with 30 mg of dexlansoprazole capsules remained healed over the six month time period as confirmed by endoscopy (see Table 9).

ommined by endedeepy (ede rable e).		
Table 9: Maintenance Rates [*] of Heal	ed EE at Month 6 in Adults	
Number of Patients (N) [†]	Treatment Group (daily)	Maintenance Rate (%)
125	Dexlansoprazole 30 mg capsules	66.4 [‡]
119	Placebo	14.3

*Based on crude rate estimates, patients who did not have endoscopically documented relapse and prematurely discontinued were considered to have relansed

Patients with at least one postbaseline endoscopy *Statistically significant vs placebo

Dexlansoprazole 60 mg capsules once daily was studied and did not provide additional clinical benefit over dexlansoprazole 30 mg capsules once daily.

The effect of dexlansoprazole 30 mg capsules on maintenance of relief of heartburn was also evaluated. Upon entry into the maintenance study, a majority of patients' baseline heartburn severity was rated as none. Dexlansoprazole 30 mg capsules demonstrated a statistically significantly higher percent of 24 hour heartburn-free periods compared to placebo over the six month treatment period (see Table 10). The majority of patients treated with placebo discontinued due to relapse of

Table 10: Median Percenta	le 10: Median Percentage of 24 Hour Heartburn-Free Periods of the Maintenance of Healed EE Study in Adults						
	Ove	erall Treatment*		Month 1		Month 6	
Treatment Group (daily)	N	Heartburn-Free 24 hour Periods (%)	N	Heartburn-Free 24 hour Periods (%)	N	Heartburn-Free 24 hour Periods (%)	
Dexlansoprazole 30 mg capsules	132	96.1 [†]	126	96.7	80	98.3	
Placebo	141	28.6	117	28.6	23	73.3	

*Secondary efficacy endpoint [™]Statistically significant vs placebo

14.3 Treatment of Symptomatic Non-Erosive GERD in Adults

A multicenter, double-blind, placebo-controlled, randomized, four week study was conducted in patients with a diagnosis of symptomatic non-erosive GERD made primarily by presentation of symptoms. These patients who identified heartburn as their primary symptom, had a history of heartburn for six months or longer, had heartburn on at least four of seven days immediately prior to randomization and had no esophageal erosions as confirmed by endoscopy. However, patients with symptoms which were not acid-related may not have been excluded using these inclusion criteria. Patients were randomized to one of the following treatment groups: Dexlansoprazole 30 mg daily, 60 mg daily, or placebo. A total of 947 patients were enrolled and ranged in age from 18 to 86 years (median age 48 years) with 71% female. Race was distributed as follows: 82% Caucasian, 14% Black and

Dexlansoprazole 30 mg capsules provided statistically significantly greater percent of days with heartburn-free 24 hour periods over placebo as assessed by daily diary over four weeks (see Table 11). Dexlansoprazole 60 mg capsules once daily was studied and provided no additional clinical benefit over dexlansoprazole 30 mg capsules once daily.

Table 11: Median Percentages of 24 Hour Heartburn-Free Periods During the 4 Week Treatment Period of the Symptomatic

NON-Erosive GERD Study in Adults		
	Treatment	Heartburn-Free
	Group	24 hour Periods
N	(daily)	(%)
312	Dexlansoprazole 30 mg capsules	54.9 [*]
310	Placebo	18.5

A higher percentage of patients on dexlansoprazole 30 mg capsules had heartburn-free 24 hour periods compared to placebo as early as the first three days of treatment and this was sustained throughout the treatment period (percentage of patients on Day 3: dexlansoprazole 38% versus placebo 15%; on Day 28: dexlansoprazole 63% versus placebo 40%). 14 4 Pediatric GERD

Use of dexlansoprazole in patients 12 to 17 years of age is supported by evidence from adequate and well-controlled studies of dexlansoprazole capsules in adults, with additional safety, efficacy, and pharmacokinetic data from studies performed in pediatric

Healing of EE, Maintenance of Healed EE and Relief of Heartburn

In a multicenter, 36 week trial, 62 patients 12 to 17 years of age with a documented history of GERD for at least three months and endoscopically-proven erosive esophagitis (EE) were enrolled to evaluate the healing of EE, maintenance of healed EE and relief of heartburn, followed by an additional 12 weeks without treatment. The median age was 15 years, with males accounting for 61% of the patients. Based on the Los Angeles Classification Grading Scale, 97% of patients had mild EE (Grades A and B), and 3% of patients had moderate to severe EE (Grades C and D) before

In the first eight weeks, 62 patients were treated with dexlansoprazole 60 mg capsules once daily to evaluate the healing of EE.

of the 62 patients, 58 patients completed the eight week trial, and 51 (88%) patients achieved healing of EE, as confirmed by endoscopy, over eight weeks of treatment (see Table 12).

Table 12. Healing of EE at Week 8 in Pediatric Patients 12 to 17 Years of Age		
	Dexiansoprazole 60 mg Capsules	
Proportion of randomized patients healed n (%) 95% Cl	51/62 (82%) (70, 91) [†]	
Proportion of evaluable patients healed* n (%) 95% Cl	51/58 (88%) (77, 95)†	

* Includes only patients who underwent postbaseline endoscopy. † Reported are the exact confidence limits

After the initial eight weeks of treatment, all 51 patients with healed EE were randomized to receive treatment with dexlansoprazole 30 mg capsules or placebo, once daily for an additional 16 weeks to evaluate maintenance of healing and symptom resolution. Naintenance of healing was assessed by endoscopy at Week 24. Of the 51 patients randomized, 13 patients discontinued early. Of these, five patients did not undergo postbaseline endoscopy. Eighteen of 22 (82%) evaluable patients treated with dexlansoprazole 30 mg capsules remained healed over the 16 week treatment period as confirmed by endoscopy, compared with 14 of 24 (58%) in placebo (see Table 13).

	Dexiansoprazole 30 mg Capsules	Placebo
Proportion of randomized patients who maintained healing of EE n (%) 95% CI	18/25 (72%) (51, 88)‡	14/26 (54%) (33, 73)‡
Proportion of evaluable patients who maintained healing of EE [†] n (%) 95% CI	18/22 (82%) (60, 95)‡	14/24 (58%) (37, 78)‡

* Following eight weeks of initial therapy and 16 weeks of maintenance therapy. † Includes natients with at least one postbaseline endoscopy

Reported are the exact confidence limits. Relief of heartburn was assessed in randomized patients during the 16 week maintenance period. The median percentage of

24 hour heartburn-free periods was 87% for those receiving dexlansoprazole 30 mg capsules compared to 68% for those receiving placebo.

Out of the 32 patients who maintained healing of EE at the end of the 16 week maintenance period, 27 patients (16 treated with dexlansoprazole and 11 treated with placebo during the double-blind phase) were followed for an additional 12 weeks without therapy. Twenty-four of the 27 patients completed the 12 week follow-up period. One patient required treatment with Treatment of Symptomatic Non-Erosive GERD

In a single-arm, open-label, multicenter trial, 104 pediatric patients 12 to 17 years of age with symptomatic non-erosive GERD were treated with dexlansoprazole 30 mg capsules once daily, for four weeks to evaluate safety and effectiveness. Patients had a documented history of GERD symptoms for at least three months prior to screening, reported heartburn on at least three out of seven days during screening, and had no esophageal erosions as confirmed by endoscopy. The median age was 15 years, with females accounting for 70% of the patients. During the four week treatment period, the median percentage of 24 hour heartburn free periods was 47%

16 HOW SUPPLIED/STORAGE AND HANDLING Dexlansoprazole Delayed-Release Capsules, 30 mg, are opaque, white with "par" imprinted on the cap and "147" imprinted on the body.

NDC Number 49884-147-11 Size Bottle of 30

Dexlansoprazole Delayed-Release Capsules, 60 mg, are opaque, green with "par" imprinted on the cap and "148" imprinted on the body. NDC Number 49884-148-11 <u>Size</u> Bottle of 30

49884-148-09 Bottle of 90 Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature]

17 PATIENT COUNSELING INFORMATION Advise the patient to read the FDA-approved patient labeling (Medication Guide and Instructions for Use).

Adverse Reactions Advise patients to report to their healthcare provider if they experience any signs or symptoms consistent with:

Hypersensitivity Reactions [see Contraindications (4)]

Cutaneous and Systemic Lupus Erythematosus [see Warnings and Precautions (5.6)]

Acute Tubulointerstitial Nephritis [see Warnings and Precautions (5.2)]
Clostridium difficile-Associated Diarrhea [see Warnings and Precautions (5.3)] Bone Fracture [see Warnings and Precautions (5.4)]
Severe Cutaneous Adverse Reactions [see Warnings and Precautions (5.5)]

Cyanocobalamin (Vitamin B12) Deficiency [see Warnings and Precautions (5.7)] Hypomagnesemia and Mineral Metabolism [see Warnings and Precautions (5.8)] Drug Interactions

Advise patients to report to their healthcare provider if they are taking rilpivirine-containing products [see Contraindications (4)] or high-dose methotrexate [see Warnings and Precautions (5.10)].

Pregnancy Advise a pregnant woman of the potential risk to a fetus. Advise females of reproductive potential to inform their healthcare provider of a known or suspected pregnancy [see Use in Specific Populations (8.1)]. Administration

- Take without regard to food. Missed doses: If a dose is missed, administer as soon as possible. However, if the next scheduled dose is due, do not take the missed dose, and take the next dose on time. Do not take two doses at one time to make up for a missed dose.
- Swallow whole; do not chew Can be opened and sprinkled on applesauce for patients who have trouble swallowing the capsule
- Alternatively, the capsule can be administered with water via oral syringe or NG tube, as described in the Instructions for Use.

MEDICATION GUIDE Dexiansoprazole (DEX Ian SOE pra zol) Delayed-Release Capsules, for oral use

Read this Medication Guide before you start taking dexlansoprazole delayed-release capsules and each time you get a refill. There may be new information. This information does not take the place of talking to your doctor about your medical conditio or your treatment

Dexlansoprazole delayed-release capsules, 60 mg contain FD&C Yellow # 5 (tartrazine) which may cause allergic-type reactions (including bronchial asthma) in certain susceptible persons. Although the overall incidence of FD&C Yellow # 5 (tartrazine) sensitivity in the general population is low, it is frequently seen in patients who also have aspirin hypersensitivity. What is the most important information that I should know about dexlansoprazole delayed-release capsules?

Dexlansoprazole delayed-release capsules may help your acid-related symptoms, but you could still have serious stomach problems. Talk with your doctor.

Dexlansoprazole delayed-release capsules can cause serious side effects, including:

- A type of kidney problem (acute tubulointerstitial nephritis). Some people who take proton pump inhibitor (PPI) medicines, including dexlansoprazole delayed-release capsules, may develop a kidney problem called acute tubulointerstitial nephritis, that can happen at any time during treatment with PPI medicines. Call your doctor right away if you have a decrease in the amount that you urinate or if you have blood in your urine.
- Diarrhea. Dexlansoprazole delayed-release capsules may increase your risk of getting severe diarrhea. This diarrhea may be caused by an infection (Clostridium difficile) in your intestines.
- Call your doctor right away if you have watery stool, stomach pain, and fever that does not go away Bone fractures. People who take multiple daily doses of PPI medicines for a long period of time (a year or longer) may have an increased risk of fractures of the hip, wrist or spine. You should take dexlansoprazole delayed-release capsules
- exactly as prescribed, at the lowest dose possible for your treatment and for the shortest time needed. Talk to your doctor about your risk of bone fracture if you take dexlansoprazole delayed-release capsules • Certain types of lupus erythematosus. Lupus erythematosus is an autoimmune disorder (the body's immune cells attack other cells or organs in the body). Some people who take PPI medicines may develop certain types of lupus

erythematosus or have worsening of the lupus they already have. Call your doctor right away if you have new or worsening joint pain or a rash on your cheeks or arms that gets worse in the sun. Dexlansoprazole delayed-release capsules can have other serious side effects. See "What are the possible side effects o dexlansoprazole delayed-release capsules?"

What are dexiansoprazole delayed-release capsules? Dexlansoprazole delayed-release capsules are a prescription medicine called a proton pump inhibitor (PPI). Dexlansoprazole

delayed-release capsules reduce the amount of acid in your stomach. Dexiansoprazole delayed-release capsules are used in people 12 years of age and older

 for up to 8 weeks to heal acid-related damage to the lining of the esophagus (called erosive esophagitis or EE).
 for up to 6 months in adults and up to 16 weeks in children 12 to 17 years of age to continue healing of eros esophagitis and relief of hearthurn for 4 weeks to treat heartburn related to gastroesophageal reflux disease (GERD)

GERD happens when acid from your stomach enters the tube (esophagus) that connects your mouth to your stomach. This may cause a burning feeling in your chest or throat, sour taste or burping.

It is not known if dexlansoprazole delayed-release capsules are safe and effective in children under 12 years of age. Dexlansoprazole delayed-release capsules are not recommended in children under 2 years of age and may harm them. Dexlansoprazole delayed-release capsules are not effective for symptoms of GERD in children under 1 year of age

• are allergic to dexlansoprazole or any of the other ingredients in dexlansoprazole delayed-release capsules. See the end

Who should not take dexiansoprazole delayed-release capsules?

Do not take dexlansoprazole delayed-release capsules if you

of this Medication Guide for a complete list of ingredients in dexlansoprazole delayed-release capsules.

• are taking a medicine that contains rilpivirine (EDURANT, COMPLERA, JULUCA) used to treat HIV-1 (Human Immunodeficiency Virus) What should I tell my doctor before taking dexlansoprazole delayed-release capsules?

- Before you take dexlansoprazole delayed-release capsules, tell your doctor about all of your medical conditions, including
- have been told that you have low magnesium, calcium, potassium or sodium levels in your blood or you are taking a
- are pregnant, think you may be pregnant or plan to become pregnant. Dexlansoprazole delayed-release capsules may harm your unborn baby. Talk to your doctor about the possible risks to an unborn baby if dexlansoprazole delayedrelease capsules are taken during pregnancy.
 are breastfeeding or plan to breastfeed. It is not known if dexlansoprazole passes into your breast milk or if it will affect

your baby or your breast milk. Talk to your doctor about the best way to feed your baby if you take dexlansoprazole **Tell your doctor about all the medicines you take,** including prescription and over-the-counter medicines, vitamins, and herbal supplements. Keep a list of them to show your doctor and pharmacist when you get a new medicine.

Dexlansoprazole delayed-release capsules may affect how other medicines work, and other medicines may affect how dexlansoprazole delayed-release capsules work.

Especially tell your doctor if you take methotrexate (Otrexup, Rasuvo, Trexall, Reditrex, Xatmep) or digoxin. Know the How should I take dexlansoprazole delayed-release capsules?

 Take dexlansoprazole delayed-release capsules exactly as prescribed by your doctor.
 Do not change your dose or stop taking dexlansoprazole delayed-release capsules without talking to your doctor first. Take dexlansoprazole delayed-release capsules with or without food.

- Swallow dexlansoprazole delayed-release capsules whole. Do not chew the capsules or the granules that are in the
- If you have trouble swallowing a whole capsule, you can open the capsule and take the contents in applesauce. See
 the "Instructions for Use" at the end of this Medication Guide for instructions on how to take dexlansoprazole delayedrelease capsules with applesauce. See the "Instructions for Use" at the end of this Medication Guide for instructions on how to mix and give dexlansoprazole delayed-release capsules with water using an oral syringe or through a nasogastric tube.
- If you miss a dose of dexlansoprazole delayed-release capsules, take it as soon as you remember. If it is almost time
 for your next dose, do not take the missed dose. Take your next dose at your regular time. Do not take 2 doses at the same time to make up for the missed dose.

If you take too much dexlansoprazole delayed-release capsules, call your doctor or your poison control center at 1-800-222-1222 right away or go to the nearest hospital emergency room.

- What are the possible side effects of dexlansoprazole delayed-release capsules? Dexlansoprazole delayed-release capsules may cause serious side effects, including: See "What is the most important information I should know about dexlansoprazole delayed-release capsules?"
- Vitamin B12 deficiency. Dexlansoprazole delayed-release capsules reduce the amount of acid in your stomac Stomach acid is needed to absorb Vitamin B12 properly. Talk with your doctor about the possibility of Vitamin B12 deficiency if you have been on dexlansoprazole delayed-release capsules for a long time (more than 3 years).
 - Low magnesium levels in your body can happen in people who have taken dexlansoprazole delayed-release capsules for at least 3 months. Tell your doctor right away if you have symptoms of low magnesium levels, including seizures, dizziness, irregular heartbeat, jitteriness, muscle aches or weakness, and spasms of hands, feet or voice. Stomach growths (fundic gland polyps). People who take PPI medicines for a long time have an increased risk of
 developing a certain type of stomach growth called fundic gland polyps, especially after taking PPI medicines for more
 - than 1 year. Severe skin reactions. Dexlansoprazole delayed-release capsules can cause rare but severe skin reactions that may affect any part of your body. These serious skin reactions may need to be treated in a hospital and may be life
 - . Skin rash which may have blistering, peeling or bleeding on any part of your skin (including your lips, eyes, mouth, nose, genitals, hands or feet).
- You may also have fever, chills, body aches, shortness of breath, or enlarged lymph nodes. Stop taking dexlansoprazole delayed-release capsules and call your doctor right away. These symptoms may be the first sign of a severe skin reaction
- The most common side effects of dexlansoprazole delayed-release capsules in adults include: · stomach pain
 - nausea common cold vomiting
- The most common side effects of dexlansoprazole delayed-release capsules in children 12 to 17 years of age include: headache
- stomach pain diarrhea pain or swelling (inflammation) in your mouth, nose or throat
- Other side effects:
- Serious allergic reactions. Tell your doctor if you get any of the following symptoms with dexlansoprazole delayed-release rash
- face swelling
- · difficulty breathing Your doctor may stop dexlansoprazole delayed-release capsules if these symptoms happen Tell your doctor if you have any side effect that bothers you or that does not go away.

These are not all the possible side effects of dexlansoprazole delayed-release capsules. For more information, ask your doctor Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088

Keep dexlansoprazole delayed-release capsules and all medicines out of the reach of children.

How should I store dexiansoprazole delayed-release capsules? • Store dexlansoprazole delayed-release capsules at room temperature between 68° to 77°F (20° to 25°C).

General information about the safe and effective use of dexlansoprazole delayed-release capsules. Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use dexlansoprazole delayed-release capsules for a condition for which it was not prescribed. Do not give dexlansoprazole delayed-release capsules

This Medication Guide summarizes the most important information about dexlansoprazole delayed-release capsules. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about exlansoprazole delayed-release capsules that is written for health profession

For more information, go to www.parpharm.com or call 1-800-828-9393.

What are the ingredients in dexlansoprazole delayed-release capsules?

Active ingredient: dexlansoprazole.

to other people, even if they have the same symptoms you have. It may harm them.

Inactive ingredients: calcium hydroxide, colloidal silicon dioxide, hydroxypropyl cellulose, hypromellose, mannitol, methacrylic acid and ethyl acrylate copolymer, methacrylic acid copolymer type B, polyethylene glycol, polysorbate 80, sodium lauryl sulfate, sugar spheres, talc and triethyl citrate. The black imprinting ink contains: ammonium hydroxide, iron oxide black, isopropyl alcohol, N-butyl alcohol, propylene glycol and shellac glaze in ethanol. The capsule lis contain hypromellose and titanium dioxide. In addition, 60 mg contain FD&C Blue #1, FD&C Yellow #5, and FD&C Yellow #6.

INSTRUCTIONS FOR USE

Dexlansoprazole (DEX Ian SOE pra zol) Delayed-Release Capsules, for oral use

Taking dexlansoprazole delayed-release capsules with applesauce: Place 1 tablespoon of applesauce into a clean container. Carefully open the capsule and sprinkle the granules onto the applesauce.

Swallow the applesauce and granules right away. Do not chew the granules. Do not save the applesauce and granules Giving dexlansoprazole delayed-release capsules with water using an oral syringe:

1. Place 20 mL of water into a clean container. Carefully open the capsule and empty the granules into the container of water Use an oral syringe to draw up the water and granule mixture.

Gently swirl the oral syringe to keep the granules from settling. Place the tip of the oral syringe in your mouth. Give the medicine right away. Do not save the water and granule mixture for later use.

6. Refill the syringe with 10 mL of water and swirl gently. Place the tip of the oral syringe in your mouth and give the

medicine that is left in the syringe.

For people who have an NG tube that is size 16 French or larger, dexlansoprazole delayed-release capsules may be given as Place 20 mL of water into a clean contained 2. Carefully open the capsule and empty the granules into the container of water.

3. Use a 60 mL catheter-tip syringe to draw up the water and granule mixture. Gently swirl the catheter-tip syringe to keep the granules from settling.
 Connect the catheter-tip syringe to the NG tube.

6. Give the mixture right away through the NG tube that goes into the stomach. Do not save the water and granule mixture for later use Refill the catheter-tip syringe with 10 mL of water and swirl gently. Flush the NG tube with the water

Giving dexlansoprazole delayed-release capsules with water through a nasogastric tube (NG tube):

Repeat step 7. How should I store dexiansoprazole delayed-release capsules? Store dexiansoprazole delayed-release capsules at room temperature between 68° to 77°F (20° to 25°C).

Keep dexlansoprazole delayed-release capsules and all medicines out of the reach of children. This Medication Guide and Instructions for Use have been approved by the U.S. Food and Drug Administration All other trademark names are the property of their respective owners.

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