

How should I store dexlansoprazole delayed-release capsules?

- Store dexlansoprazole delayed-release capsules at room temperature between 68°F to 77°F (20°C to 25°C).

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

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

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 dexlansoprazole delayed-release capsules that is written for health professionals.

For more information, go to www.twipharma.com or call 1-844-518-2989.

What are the ingredients in dexlansoprazole delayed-release capsules?

Active ingredient: dexlansoprazole.

Inactive ingredients: sugar spheres, hypromellose, sucrose, sodium hydroxide, magnesium carbonate, titanium dioxide, methacrylic acid and ethyl acrylate copolymer dispersion, triethyl citrate, polyethylene glycol, polysorbate 80 and talc. The components of the capsule shell include the following inactive ingredients: FDA/E172 Black iron oxide, titanium dioxide, hypromellose, and colorants FD&C Blue #1. The black imprinting ink contains: shellac, black iron oxide, FD&C Blue #2, FD&C Red #40, FD&C Blue #1, and D&C Yellow #10.

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INSTRUCTIONS FOR USE Dexlansoprazole (dex lan soe 'pra zole) 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 for later use.

Giving dexlansoprazole delayed-release capsules with water using an oral syringe:

- 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.
- 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.

Repeat step 6.

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

For people who have an NG tube that is size 16 French or larger, dexlansoprazole delayed-release capsules may be given as follows:

- Place 20 mL of water into a clean container.
- Carefully open the capsule and empty the granules into the container of water.
- 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.
- 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.
- Repeat step 7.

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This Medication Guide and Instructions for Use have been approved by the U.S. Food and Drug Administration.

Manufactured by:

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Revised: 06/2022

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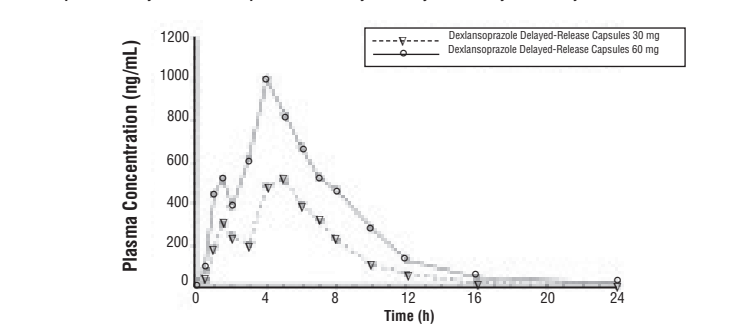
Cardiac Electrophysiology

At a dose five times the maximum recommended dose, dexlansoprazole does not prolong the QT interval to any clinically relevant extent.

12.3 Pharmacokinetics

The dual delayed-release formulation of dexlansoprazole delayed-release 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 delayed-release capsules 30 or 60 mg although mean AUC₀₋₂₄ and C_{max} values of dexlansoprazole were slightly higher (less than 15%) on Day 5 than on Day 1.

Figure 1. Mean Plasma Dexlansoprazole Concentration - Time Profile Following Oral Administration of 30 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 CLF of greater than 30% (see Table 6).

Dose (mg)	C _{max} (ng/mL)	AUC ₀₋₂₄ (ng•h/mL)	CLF (L/h)
30	658 (40%) (N=44)	3275 (47%) (N=43)	11.4 (48%) (N=43)
60	1397 (51%) (N=73)	6529 (60%) (N=73)	11.6 (40%) (N=73)

Absorption

After oral administration of dexlansoprazole delayed-release capsules 30 or 60 mg 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 delayed-release capsules 60 mg 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 delayed-release capsules 60 mg was administered as an intact capsule (see Dosage and Administration (2.3)).

Effect on Food

In food-effect studies in healthy subjects receiving dexlansoprazole delayed-release capsules under various fed conditions compared to fasting, increases in C_{max} ranged from 12 to 55%, increase 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)).

Distribution

Plasma protein binding of dexlansoprazole ranged from 96 to 99% in healthy subjects and was independent of concentration from 0.01 to 20 mcg/mL. The apparent volume of distribution (V_d) 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 glucuronide 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*1/1), 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.

Excretion

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): 9.0%) of the administered radioactivity was excreted in urine and 47.8% (SD: 7.3%) in the feces. Apparent clearance (CLF) in healthy subjects was 11.4 to 11.6 L/hour, respectively, after five days of 30 or 60 mg once daily administration.

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 delayed-release capsules 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 68% 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).

Dose	C _{max} (ng/mL)	AUC ₀₋₂₄ (ng•h/mL)	CLF (L/h)
30 mg (N=17)	691 (53)	2886 (47)	12.8 (48)
60 mg (N=18)	1136 (51)	5120 (58)	15.3 (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 delayed-release capsules 30 or 60 mg were given to 24 geriatric subjects (34% higher than younger subjects) (see Use in Specific Populations (8.5)).

Sex

In a study of 12 male and 12 female healthy subjects who received a single dose of dexlansoprazole delayed-release capsules 60 mg, females had higher systemic exposure (AUC) (45% 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 delayed-release 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 vivo studies have shown that dexlansoprazole is not likely to inhibit CYP isoforms 1A1, 1A2, 2A6, 2B6, 2C8, 2C9, 2D6, 2E1 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 delayed-release capsules did not have an impact on the pharmacokinetics of coadministered phenytoin (CYP2C9 substrate) or theophylline (CYP1A2 substrate). The subjects' CYP1A2 phenotypes in the drug-drug interaction study with theophylline were not determined. Although *in vitro* studies indicated that dexlansoprazole delayed-release capsules have the potential to inhibit CYP2C19 *in vivo*, an *in vivo* drug-drug interaction study in healthy CYP2C19 extensive and intermediate metabolizers has shown that dexlansoprazole delayed-release capsules do 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 delayed-release capsules 60 mg (N=40), for nine days was conducted. The mean AUC of the active metabolite of clopidogrel was reduced by 31% (mean AUC ratio was 61%, with 90% CI of 82 to 37%) when dexlansoprazole delayed-release capsules were coadministered compared to administration of clopidogrel alone. Pharmacodynamic parameters were also measured and demonstrated that the change in inhibition of platelet aggregation (induced by 5 μM ADP) was related to the change in the exposure to clopidogrel active metabolite. The effect on exposure to the active metabolite of clopidogrel and on clopidogrel-induced platelet inhibition is not considered clinically important.

Effect of Other Drugs on Dexlansoprazole

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

12.5 Pharmacogenomics

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 delayed-release capsules 30 or 60 mg (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 C_{max} 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 Caucasian 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 Clinical 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 increase of gastric ECL cell hyperplasia. It also produced an increased incidence of liver tumors (hepatocellular adenoma plus carcinoma). The tumor incidences in female mice treated with 30 and 600 mg/kg/day (10 to 80 times the recommended human lansoprazole dose based on BSA) and female mice treated with 150 to 600 mg/kg/day (10 to 80 times the recommended human lansoprazole dose based on BSA) exceeded the range 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. Lansoprazole was positive in the Ames test and the *in vitro* human lymphocyte chromosome aberration assay. Lansoprazole was not genotoxic in the *in 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 to have no effect on fertility and reproductive performance of male and female rats.

14 CLINICAL STUDIES

14.1 Healing of Erosive Esophagitis in Adults

Two multicenter, double-blind, active-controlled, randomized, eight week studies were conducted in patients with endoscopically confirmed EE. Severity of the disease was classified based on the Los Angeles Classification Grades System (Grades A-D). Patients were randomized to one of the following three treatment groups: dexlansoprazole delayed-

release capsules 60 mg once daily, dexlansoprazole delayed-release capsules 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 4022 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.

Study	Number of Patients (N) ¹	Treatment Group (daily)	Week 4		(95% CI) for the Treatment Difference (Dexlansoprazole Delayed-Release Lansoprazole) by Week 8
			% Healed	Week 8 ² % Healed	
1	657	Dexlansoprazole Delayed-Release Capsules 60 mg	70	87	(-1.5, 6.1) ³
		Lansoprazole 30 mg	65	85	
2	639	Dexlansoprazole Delayed-Release Capsules 60 mg	66	85	(2.2, 10.5) ³
		Lansoprazole 30 mg	65	79	

CI = Confidence interval

¹ Based on crude rate estimates, patients who did not have endoscopically documented healed EE and prematurely discontinued were considered to be healed.

² Patients with at least one postbaseline endoscopy.

³ Primary efficacy endpoint.

⁴ Demonstrated noninferiority to lansoprazole.

Dexlansoprazole delayed-release capsules 90 mg once daily were studied and did not provide additional clinical benefit over dexlansoprazole delayed-release capsules 60 mg once daily.

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

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 lansoprazole delayed-release capsules 30 or 60 mg 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 delayed-release capsules remained healed over the six month time period as confirmed by endoscopy (see Table 9).

Number of Patients (N) ¹	Treatment Group (daily)	Maintenance Rate (%)
125	Dexlansoprazole Delayed-Release Capsules 30 mg	66.4
119	Placebo	14.3

¹ Based on crude rate estimates, patients who did not have endoscopically documented relapse and prematurely discontinued were considered to have relapsed.

² Patients with at least one postbaseline endoscopy.

³ Statistically significant vs placebo

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

The effect of dexlansoprazole delayed-release capsules 30 mg 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. Lansoprazole delayed-release capsules 30 mg 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 EE between Month 2 and Month 6.

Treatment Group (daily)	Overall Treatment* (%)		Month 1 (%)		Month 6 (%)	
	N	Heartburn-Free 24 hour Periods (%)	N	Heartburn-Free 24 hour Periods (%)	N	Heartburn-Free 24 hour Periods (%)
Dexlansoprazole Delayed-Release Capsules 30 mg	132	96.1 ³	126	96.7	80	98.3
Placebo	141	28.6	117	28.6	23	73.3

¹ Secondary efficacy endpoint

² 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 have been included using these inclusion criteria. Patients were randomized to one of the following treatment groups: dexlansoprazole delayed-release capsules 30 mg daily, 60 mg daily, or placebo. A total of 547 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 4% Other.

Dexlansoprazole delayed-release capsules 30 mg 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 delayed-release capsules 60 mg once daily was studied and provided no additional clinical benefit over dexlansoprazole delayed-release capsules 30 mg once daily.

Dexlansoprazole delayed-release capsules 30 mg 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 delayed-release capsules 60 mg once daily was studied and provided no additional clinical benefit over dexlansoprazole delayed-release capsules 30 mg once daily.

N	Treatment Group (daily)		Heartburn-Free 24 hour Periods (%)	
	Dexlansoprazole Delayed-Release Capsules 30 mg	Placebo	N	%
312	Dexlansoprazole Delayed-Release Capsules 30 mg	310	54.9*	18.5

¹ Statistically significant vs placebo

A higher percentage of patients on dexlansoprazole delayed-release capsules 30 mg 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 delayed-release capsules 38% vs placebo 15%; on Day 28: dexlansoprazole delayed-release capsules 83% vs placebo 40%).

14.4 Pediatric GERD

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

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 treatment.

In the first eight weeks, 62 patients were treated with dexlansoprazole delayed-release capsules 60 mg once daily to evaluate the healing of EE. Of the 62 patients, 58 patients completed the eight week trial, and 51 (89%) 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		
Proportion of randomized patients healed n (%)	Dexlansoprazole Delayed-Release Capsules 60 mg	
	n (%)	95% CI
51/62 (82%)	51/62 (82%)	(70, 91) ¹
95% CI		
Proportion of evaluable patients healed* n (%)	Dexlansoprazole Delayed-Release Capsules 60 mg	
51/58 (88%)	51/58 (88%)	(77, 95) ¹
95% CI		

¹ Includes only patients who underwent postbaseline endoscopy.

² 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 delayed-release capsules 30 mg or placebo, once daily for an additional 16 weeks to evaluate maintenance of healing and symptom resolution. Maintenance of healing was assessed by endoscopy at Week 24. Of the 51 patients randomized, 1