	and effectively. See full prescribing information for ESOMEPRAZOLE MAGNESIUM	opened, and the contents	administered through a nasogastric tube. (2.3)	not swallow intact capsule, the capsule can be	Indication	Patient Age	Indication Recommended Dosage	Duration	cause hypomagnesemia (e.g., diu initiation of PPI treatment and peri
	cs. M delayed-release capsules, for oral use			, THS	Healing of EE	12 years to 17 years	Esomeprazole magnesium delayed-release capsules 20 mg or 40 mg once daily	to 8 Weeks	Consider monitoring magnesiu release capsules and periodical
Initial U.S. Approval: 1989 (o	omeprazole)		es: 20 mg and 40 mg esomeprazole. (3)		Treatment of	12 years to 17 years	Esomeprazole magnesium delayed-release capsules	: 4 weeks	hypoparathyroidism). Supplemen treatment, consider discontinuing
larnings and Precautions,	RECENT MAJOR CHANGES		CONTRAINDICATIONS o substituted benzimidazoles or any componen	t of the formulation. (4)	Symptomatic GERD		20 mg once daily		5.10 Interaction with St. John's Drugs which induce CYP2C19 or (
evere Cutaneous Adverse Rea ypomagnesemia and Mineral	Motoboliam (5.0)		ne-containing products. (4, 7) cations section of the prescribing informati	on for amoxicillin and clarithromycin, when		d Administration Instruc le magnesium delayed-re	c <b>tions</b> elease capsules at least one hour before meals <i>[see Cli</i>	nical Pharmacology	concentrations [see Drug Interact
	aved-release capsules are a proton pump inhibitor (PPI).		tion with esomeprazole magnesium delayed-re		(12.3)]. • Antacids may be		esomeprazole magnesium delayed-release capsules.		5.11 Interactions with Diagnos
omeprazole magnesium del	ayed-release capsules are indicated for the: healing of erosive esophagitis (EE) in adults and pediatric patients 12 years to 17 years of			NS e the presence of gastric malignancy. Consider	<ul> <li>Take a missed do</li> </ul>	se as soon as possible. If	it is almost time for the next dose, skip the missed dos take 2 doses at the same time.	e and take the next	Serum chromogranin A (CgA) lev level may cause false positive re
age. (1.1) Maintenance of healing of		<ul> <li>additional follow-up and</li> <li>Acute Tubulointerstitial N</li> </ul>	diagnostic testing. (5.1) ephritis: Discontinue treatment and evaluate p	atients. (5.2)	Esomeprazole Magne	sium Delayed-Release Ca	psules		temporarily stop esomeprazole initial CgA levels are high. If ser
	eartburn and other symptoms associated GERD in adults and pediatric patients 12 years to		ciated Diarrhea: PPI therapy may be associate rm and multiple daily dose PPI therapy ma	d with increased risk. (5.3) ay be associated with an increased risk for		zole magnesium delayed-	release capsules orally or via a nasogastric tube, as des	scribed below.	used for testing, as reference ra 5.12 Interaction with Methotro
Risk reduction of nonste	eroidal anti-inflammatory drugs (NSAID)-associated gastric ulcer in adults at risk for due to age (60 years and older) and/or documented history of gastric ulcers. (1.4)		tures of the hip, wrist or spine. (5.4) rse Reactions: Discontinue at the first signs	s or symptoms of severe cutaneous adverse			d-release capsules whole; do not chew or crush the cap		Literature suggests that con prescribing information) may el
	ation in adult patients to reduce the risk of duodenal ulcer recurrence in combination with		of hypersensitivity and consider further evaluat <u>c Lupus Erythematosus</u> : Mostly cutaneous; n	ion. (5.5) ew onset or exacerbation of existing disease;	be opened, and		ing capsules, esomeprazole magnesium delayed-rele n applesauce. Use with other foods has not been ev		
	thological hypersecretory conditions, including Zollinger-Ellison syndrome in adults. (1.6)	<ul> <li>Interaction with Clopidog</li> </ul>	e magnesium delayed-release capsules and re rel: Avoid concomitant use of esomeprazole m	agnesium delayed-release capsules. (5.7)	anough to be		in empty bowl. The applesauce used should not be hot	and should be soft	
Population	Recommended Adult (2.1) and Pediatric Dosage (2.2)	<ul> <li><u>Cyanocobalamin (Vitamin</u> or a deficiency of cyanoc</li> </ul>		onger than 3 years) may lead to malabsorption			layed-release capsule and carefully empty the granules	s inside the capsule	PPI use is associated with an ir one year. Most PPI users who d
Healing of EE			ineral Metabolism: Reported rarely with prolon i's Wort or Rifampin: Avoid concomitant use	ged treatment with PPIs. (5.9) of esomeprazole magnesium delayed-release	<ol><li>Mix the granu</li></ol>	les with the applesauce.	not show or arigh the granulas		incidentally on endoscopy. Use
Adults	20 mg or 40 mg <sup>1</sup> once daily for 4 to 8 weeks; some patients may require an additional 4 to 8 weeks	<ul> <li>capsules. (5.10, 7)</li> <li>Interactions with Diagnosity</li> </ul>	stic Investigations for Neuroendocrine Tumors	s: Increased chromogranin A (CgA) levels may	5. Discard any r	emaining mixture. Do not a	not chew or crush the granules store the mixture for future use.		6 ADVERSE REACTIONS The following serious adverse m
2 years to 17 years	20 mg or 40 mg <sup>1</sup> once daily for 4 to 8 weeks		c investigations for neuroendocrine tumors, s at least 14 days before assessing CgA levels.	temporarily stop esomeprazole magnesium (5.11, 12.2)					<ul> <li>Acute Tubulointerstitial Nepl</li> <li>Clostridium difficile-Associa</li> </ul>
Maintenance of Healing of E Adults				vate and/or prolong serum concentrations of gh dose methotrexate administration, consider	syringe.	,	ed-release capsule and empty the granules into a 60	mL catheter-tipped	<ul> <li>Bone Fracture [see Warning</li> <li>Severe Cutaneous Adverse I</li> </ul>
Freatment of Symptomatic (	20 mg once daily. Controlled studies do not extend beyond 6 months GERD		esomeprazole magnesium delayed-release ca sk increases with long-term use, especially b	psules. (5.12, 7) beyond one year. Use the shortest duration of	3. Replace the plung		r-tipped syringe vigorously for 15 seconds.		<ul> <li>Cutaneous and Systemic Lu</li> <li>Cyanocobalamin (Vitamin B-</li> </ul>
Adults	20 mg once daily for 4 weeks some patients may require an additional 4 weeks	therapy. (5.13)			<ol> <li>Hold the catheter</li> <li>Attach the catheter</li> </ol>	eter-tipped syringe to a	p up and check for any granules remaining in the tip. nasogastric tube and deliver the contents of the sy	yringe through the	<ul> <li>Hypomagnesemia and Mine</li> <li>Fundic Gland Polyps <i>[see W</i>]</li> </ul>
2 years to 17 years isk Reduction of NSAID-As	20 mg once daily for 4 weeks ssociated Gastric Ulcer	Most common adverse reacti				ig the granules, flush the r	nasogastric tube with additional water.	d or diciptorented	6.1 Clinical Trials Experience
dults	20 mg or 40 mg <sup>1</sup> once daily for up to 6 months <sup>2</sup> uce the Risk of Duodenal Ulcer Recurrence	<ul> <li>Pediatrics (1 to 17 years)</li> </ul>	are: headache, diarrhea, nausea, flatulence, a (≥2%) are: headache, diarrhea, abdominal pai	n, nausea, and somnolence.	3 DOSAGE FORMS		ion. Do not administer the granules if they have dissolve	eu ur disintegrated.	Because clinical trials are condu of a drug cannot be directly con
dults	Esomeprazole magnesium delayed-release capsules 40 mg <sup>1</sup> once daily for 10 days	To report SUSPECTED ADV 1-800-FDA-1088 or www.fo		peutics, LLC at 1- 800-417-9175 or FDA at	Esomeprazole Magne	sium Delayed-Release Ca	psules, USP are supplied as:		in practice. <u>Adults</u>
	Amoxicillin 1,000 mg twice daily for 10 days <sup>3</sup> Clarithromycin 500 mg twice daily for 10 days <sup>3</sup>		DRUG INTERACTIONS		20 mg capsules with "20mg" on the body i		p and opaque powder blue body, imprinted with " [2] 1	09" on the cap and	The safety of esomeprazole ma years) in clinical trials worldwid
	Conditions Including Zollinger-Ellison Syndrome		ion for a list of clinically important drug interac	tions. (7) <b>NS</b>	40 mg capsules with "40mg" on the body i		p and opaque powder blue body, imprinted with " $\square$ 1	08" on the cap and	Canada. Over 2,900 patients we
Adults	Starting dosage is 40 mg twice daily <sup>4</sup> (varies with the individual patient) as long as clinically indicated.	Pediatrics: Use is not recom	mended for the treatment of symptomatic GE	RD in patients 1 month to less than 1 year of	• •				The safety in the treatment of h included 1,240 patients who r
A maximum dosage of 20 mg Controlled studies do not exte	g once daily is recommended for patients with severe liver impairment (Child-Pugh Class C). end beyond 6 months.	age; efficacy was not demon			to substituted be	enzimidazoles or to any	se Capsules are contraindicated in patients with know component of the formulation. Hypersensitivity read	ctions may include	
	d clarithromycin prescribing information for dosage adjustments in elderly and renally-	See 17 for PATIENT COUNSE	ELING INFORMATION and Medication Guide.	Revised: 06/2023		phylactic shock, angioede ecautions (5.2), Adverse Re	ema, bronchospasm, acute tubulointerstitial nephritis, eactions (6.2)].	, and urticaria [see	constipation, and dry mouth oc
	wice daily is recommended for patients with severe liver impairment (Child-Pugh Class C).						amoxicillin and clarithromycin, indicated in combination <i>H. pylori</i> eradication to reduce the risk of duodenal ulco		Less common adverse reactions Body as a Whole: abdomen en
ULL PRESCRIBING INFORMA		7 DRUG INTERACTIONS					ective prescribing information. omeprazole Magnesium Delayed-Release Capsules, are	e contraindicated in	edema, peripheral edema, hot rigors;
I INDICATIONS AND USAG 1.1 Healing of Erosive		8 USE IN SPECIFIC POPU 8.1 Pregnancy	LATIONS		patients receiving	rilpivirine-containing proc	ducts [see Drug Interactions (7)].		Cardiovascular: flushing, hyperte Endocrine: goiter;
1.2 Maintenance of H 1.3 Treatment of Sym	nptomatic GERD	8.2 Lactation 8.4 Pediatric Use			5 WARNINGS AND 5.1 Presence of Ga				Gastrointestinal: bowel irregu
	f Nonsteroidal Anti-Inflammatory Drugs (NSAID)-Associated Gastric Ulcer rri Eradication to Reduce the Risk of Duodenal Ulcer Recurrence	8.5 Geriatric Use 8.6 Hepatic Impairm	nent		In adults, symptomat	ic response to therapy wi	th esomeprazole magnesium delayed-release capsules	s does not preclude	eructation, esophageal disorder hiccup, melena, mouth disorder edoma ulcarative stamatitis vo
1.6 Pathological Hype DOSAGE AND ADMINIST		10 OVERDOSAGE 11 DESCRIPTION			a suboptimal respon	se or an early symptoma	r additional follow-up and diagnostic testing in adult tic relapse after completing treatment with a PPI. In a		
	osage in Adults by Indication osage in Pediatric Patients by Indication	12 CLINICAL PHARMACOL 12.1 Mechanism of A			consider an endoscop 5.2 Acute Tubuloin				Hematologic: anemia, anem thrombocytopenia;
2.3 Preparation and A DOSAGE FORMS AND ST	Administration Instructions TRENGTHS	12.2 Pharmacodynan 12.3 Pharmacokinetic			Acute tubulointerstiti PPI therapy. Patients	al nephritis (TIN) has be may present with varyir	en observed in patients taking PPIs and may occur a ng signs and symptoms from symptomatic hypersens	at any point during sitivity reactions to	
CONTRAINDICATIONS WARNINGS AND PRECAU		12.4 Microbiology 12.5 Pharmacogenon			patients were diagno	osed on biopsy and in th	unction (e.g., malaise, nausea, anorexia). In reported e absence of extra-renal manifestations (e.g., fever,	rash or arthralgia).	deficiency, weight increase, we
5.1 Presence of Gastr 5.2 Acute Tubulointers	stitial Nephritis		Mutagenesis, Impairment of Fertility		Discontinue esomepr Contraindications (4)		d-release capsules and evaluate patients with suspec	cted acute TIN [see	Musculoskeletal: arthralgia, a rheumatica;
5.4 Bone Fracture	ile-Associated Diarrhea	13.2 Animal Toxicolog 14 CLINICAL STUDIES				ficile-Associated Diarrhe	<b>ea</b> PPI therapy like esomeprazole magnesium delayed-rel		Nervous System/Psychiatric: hypertonia, nervousness, hypoe
5.6 Cutaneous and Sy	s Adverse Reactions ystemic Lupus Erythematosus	14.1 Healing of EE in 14.2 Maintenance of	Healing of EE in Adults		be associated with a	n increased risk of Clostri	idium difficile-associated diarrhea, especially in hospita		somnolence, tremor, vertigo, vis Reproductive: dysmenorrhea, m
	(Vitamin B-12) Deficiency	14.3 Symptomatic GE 14.4 Pediatric GERD			Patients should use th	he lowest dose and shorte	at does not improve <i>[see Adverse Reactions (6.2)]</i> . est duration of PPI therapy appropriate to the condition b		Respiratory: asthma aggravated Skin and Appendages: acne, an
5.10 Interaction with S	a and Mineral Metabolism 3t. John's Wort or Rifampin		of NSAID-Associated Gastric Ulcer tion in Adult Patients with Duodenal Ulcer Dise	ease	more information spe	ecific to antibacterial ager	AD) has been reported with use of nearly all antiba nts (clarithromycin and amoxicillin) indicated for use in	n combination with	skin inflammation, sweating inc
5.12 Interaction with N		16 HOW SUPPLIED/STORA		ison Syndrome, in Adults	esomeprazole magne prescribing information		apsules, refer to Warnings and Precautions section of	the corresponding	Special Senses: otitis media, pa Urogenital: abnormal urine, alt
5.13 Fundic Gland Poly 6 ADVERSE REACTIONS		17 PATIENT COUNSELING *Sections or subsections omi	INFORMATION itted from the full prescribing information are r	not listed	5.4 Bone Fracture	convetional studios sugg	est that proton pump inhibitor (PPI) therapy may be a	accordated with an	genital moniliasis, polyuria; Visual: conjunctivitis, vision abn
6.1 Clinical Trials Exp 6.2 Postmarketing Ex					increased risk for ost	eoporosis-related fracture	as of the hip, wrist, or spine. The risk of fracture was in faily doses, and long-term PPI therapy (a year or long	creased in patients	The following potentially clinit esomeprazole magnesium dela
FULL PRESCRIBING INFORMA	ATION	2 DOSAGE AND ADMINIST	IDATION		use the lowest dose	and shortest duration of	PPI therapy appropriate to the condition being treated nanaged according to established treatment guideline	ed. Patients at risk	
INDICATIONS AND USAGE		2.1 Recommended Dosag			Administration (2) and	d Adverse Reactions (6.2)]		5 [500 D05age and	in hemoglobin, white blood cell Endoscopic findings that were
.1 Healing of Erosive Esop			nded adult dosage of esomeprazole magnesiur		Severe cutaneous ad	bus Adverse Reactions lverse reactions, including	g Stevens-Johnson syndrome (SJS) and toxic epiderma	al necrolysis (TEN),	esophageal ulceration, esophag and mucosal discoloration.
<u>dults</u> someprazole Magnesium De	played-Release Capsules are indicated for the short-term treatment (4 to 8 weeks) in the	efficacy data specific to the	defined indication and dosing frequency and in	ment should be based on available safety and ndividual patient medical needs. Esomeprazole	(AGEP) have been rep		c symptoms (DRESS), and acute generalized exanthe the use of PPIs [see Adverse Reactions (6.2)]. Discont		The incidence of adverse read magnesium delayed-release ca
	Iution of diagnostically confirmed EE in adults. For those patients who have not healed after n additional 4- to 8-week course of Esomeprazole Magnesium Delayed-Release Capsules	treatment.		ntinued if the benefits outweigh the risks of	inagnoonann aonajoa	release capsules at the trity and consider further events of the second se	first signs or symptoms of severe cutaneous adverse valuation.	reactions or other	adverse reactions seen during r
nay be considered. ediatric Patients 12 Years to 1	17 Veare of Ane	Table 1: Recommended De	osage of Esomeprazole Magnesium Delayed			Systemic Lupus Eryther	matosus systemic lupus erythematosus (SLE) have been re	ported in potiente	Two placebo-controlled studies common adverse reactions that
someprazole Magnesium De	layed-Release Capsules are indicated for the short-term treatment (4 to 8 weeks) for the	Adult Indication	Recommended Dosage of Esomeprazole Magnesium Delayed-Release Capsules	Treatment Duration	taking PPIs, including	g esomeprazole. These er	vents have occurred as both new onset and an exace		Combination Treatment with Es In clinical trials of H. pylori era
ealing of EE in pediatric patie .2 Maintenance of Healing	ents 12 years to 17 years of age. g <b>of EE</b>	Healing of EE	20 mg or 40 mg <sup>1</sup> once daily	4 to 8 weeks <sup>2</sup>	The most common f	orm of CLE reported in p	ed lupus erythematosus cases were CLE. atients treated with PPIs was subacute CLE (SCLE) and		to the combination of esome observed and were similar to t
someprazole Magnesium De Controlled studies do not exter	elayed-Release Capsules are indicated for the maintenance of healing of EE in adults. nd bevond 6 months.	Maintenance of Healing of E	E 20 mg once daily	Controlled studies do not extend beyond 6	findings were observe	ed without organ involvem			delayed-release capsules, am
.3 Treatment of Symptoma	-	Treatment of Symptomatic		months 4 weeks; if symptoms do not resolve	usually milder than n	on-drug induced SLE. One	mmonly reported than CLE in patients receiving PPIs. PF set of SLE typically occurred within days to years after	initiating treatment	release capsules, amoxicillin a
<u>dults</u> someprazole Magnesium Del	layed-Release Capsules are indicated for short-term treatment (4 to 8 weeks) of heartburn	GERD	20 mg once daily	completely, consider an additional 4 weeks	primarily in patients		ts to the elderly. The majority of patients presented v		
nd other symptoms associate	ed with GERD in adults.	Risk Reduction of NSAID- Associated Gastric Ulcer	20 mg or 40 mg <sup>1</sup> once daily	Controlled studies do not extend beyond 6 months	Avoid administration	of PPIs for longer than m	nedically indicated. If signs or symptoms consistent wagnesium delayed-release capsules, discontinue the		
Pediatric Patients 12 Years to 1 Esomeprazole Magnesium Del	layed-Release Capsules are indicated for short-term treatment (4 weeks) of heartburn and	H. pylori Eradication to	Esomeprazole magnesium delayed-release capsules 40 mg once daily <sup>1</sup>	<sup>e</sup> 10 days	patient to the approp	riate specialist for evaluat	ion. Most patients improve with discontinuation of the f positive and elevated serological test results may tak	PPI alone in 4 to 12	Reactions section of the respec
	ith GERD in pediatric patients 12 years to 17 years of age. steroidal Anti-Inflammatory Drugs (NSAID)-Associated Gastric Ulcer	Reduce the Risk of Duodena Ulcer Recurrence (Triple	Amoxicillin 1,000 mg twice daily <sup>3</sup>	10 days	than clinical manifest	ations.			Pediatrics 1 Year to 17 Years of Age
someprazole Magnesium Del	layed-Release Capsules are indicated for the reduction in the occurrence of gastric ulcers ADI berapy in adult patients at risk for developing gastric ulcers. Patients are considered	Therapy)	Clarithromycin 500 mg twice daily <sup>3</sup>	10 days		e of esomeprazole magne	esium delayed-release capsules with clopidogrel. Clopid		The safety of esomeprazole ma suspension was evaluated in 3
	60 years and older) and/or documented history of gastric ulcers. Patients are considered	Pathological Hypersecretory Conditions Including Zollinge	r- Individualize the regiment to patient needs.	As long as clinically indicated	its active metabolite	can be impaired by use w	I is entirely due to an active metabolite. The metabolis ith concomitant medications, such as esomeprazole, the	hat inhibit CYP2C19	treatment of symptomatic GERD frequently reported (at least 1%)
	dication to Reduce the Risk of Duodenal Ulcer Recurrence	Ellison Syndrome	Dosages of up to 240 mg/day have been administered [see Clinical Studies (14.7)].		When using esomep		40 mg esomeprazole reduces the pharmacological act ed-release capsules consider alternative anti-platelet		and somnolence (2%). In 149 p (at least 2%) were headache (8%)
	en shown to reduce the risk of duodenal ulcer recurrence.		ng once daily is recommended for patients wit	the accuracy lives impresent (Ohild Duch Olace O)	Interactions (7)].				

Eradication of H. pylori has been shown to reduce the risk of duodenal ulcer recurrence.

Esomeprazole

Magnesium Delayed-

Release Capsules

🔺 W:2mn

Triple Therapy Esomeprazole Magnesium Delayed-Release Capsules in combination with amoxicillin and clarithromycin is indicated for Esomeprazole Magnesium belayed-Release capsules in combination with amoxicillin and clarithromycin is indicated for the treatment of adult patients with *H. pylori* infection and duodenal ulcer disease (active or history of within the past 5 seeks of treatment may be required to achieve healing [see Clinical Studies (14.1)]. Refer to the amoxicillin and clarithromycin prescribing information for dosage adjustments in elderly and renallyears) to eradicate H. pylori.

years) to eradicate *H. pylori*. In patients who fail therapy, susceptibility testing should be done. If resistance to clarithromycin is demonstrated or susceptibility testing is not possible, alternative antimicrobial therapy should be instituted [see Clinical Pharmacology (12.4)] and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or and the near-thin interaction for clarithromycin is demonstrated or antipaction is demonstrated or antipaction for clarithromycin is demonstrated or antipaction for clarithr and the prescribing information for clarithromycin].

1.6 Pathological Hypersecretory Conditions Including Zollinger-Ellison Syndrome

Esomeprazole Magnesium Delayed-Release Capsules are indicated for the long-term treatment of pathological hypersecretory conditions. including Zollinger-Ellison Syndrome in adults ypersecretory conditions, including Zollinger-Ellison Syndrome, in adults.

2.2 Recommended Dosage in Pediatric Patients by Indication

5.9 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 tetandy, arrhythmias, and seizures. Hypomagnesemia may lead to hypocalcemia and or hypocalcemia in art-isk patients. In most patients, treatment of hypomagnesemia required magnesium replacement and discontinuation of the PPI.

initiation of PPI treatment and periodically [see Adverse Reactions (6.2)].

ommenueu Dosaye	Duration	Consider monitoring magnesium and calcium levels prior to initiation of esomeprazole magnesium delayed-	Reproductive Syst		
nesium delayed-release capsules: ce daily nesium delayed-release capsules:	4 to 8 Weeks	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.	Respiratory, Thora Skin and Subcut syndrome, toxic e		
nosium uciayou-reicase capsuics.	4 weeks	5.10 Interaction with St. John's Wort or Rifampin	acute generalized		
st one hour before meals [see Clinica	al Pharmacology	Drugs which induce CYP2C19 or CYP3A4 (such as St. John's Wort or rifampin) can substantially decrease esomeprazole concentrations [see Drug Interactions (7)]. Avoid concomitant use of esomeprazole magnesium delayed-release capsules with St. John's Wort or rifampin.	Adverse reactions information for on 7 DRUG INTERA		
ium delayed-release capsules.		5.11 Interactions with Diagnostic Investigations for Neuroendocrine Tumors	Tables 3 and 4 i administered cond		
v or via a nasogastric tube, as descri		Serum chromogranin A (CgA) levels increase secondary to drug-induced decreases in gastric acidity. The increased CgA evel may cause false positive results in diagnostic investigations for neuroendocrine tumors. Healthcare providers should emporarily stop esomeprazole treatment at least 14 days before assessing CgA levels and consider repeating the test if nitial 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 <i>(see Clinical Pharmacology (12.2)</i> ).			
,		5.12 Interaction with Methotrexate	Antiretrovirals		
ole; do not chew or crush the capsul prazole magnesium delayed-releas ith other foods has not been evalu	e capsules can ated and is not	Literature suggests that concomitant use of PPIs with methotrexate (primarily at high dose; see methotrexate prescribing information) may elevate and prolong serum levels 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)].	Clinical Impact:		
plesauce used should not be hot an	d should be soft	5.13 Fundic Gland Polyps			
and carefully empty the granules in	side the capsule	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.			
e granules		6 ADVERSE REACTIONS			
uture use.		The following serious adverse reactions are described below and elsewhere in labeling:	Intervention:		
nd empty the granules into a 60 mL pusly for 15 seconds. y granules remaining in the tip. d deliver the contents of the syrin		<ul> <li>Acute Tubulointerstitial Nephritis (see Warnings and Precautions (5.2)]</li> <li>Clostridium difficile-Associated Diarrhea [see Warnings and Precautions (5.3)]</li> <li>Bone Fracture (see Warnings and Precautions (5.4)]</li> <li>Severe Cutaneous Adverse Reactions (see Warnings and Precautions (5.5)]</li> <li>Cutaneous and Systemic Lupus Erythematosus (see Warnings and Precautions (5.6)]</li> <li>Cyanocobalamin (Vitamin B-12) Deficiency [see Warnings and Precautions (5.8)]</li> <li>Hypomagnesemia and Mineral Metabolism [see Warnings and Precautions (5.9)]</li> <li>Fundic Gland Polyos, See Warnings and Precautions (5.1)]</li> </ul>			
additional water.		6.1 Clinical Trials Experience	Warfarin		
the granules if they have dissolved o	or disintegrated.	Because clinical trais experience Because clinical trais 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.	Clinical Impact:		
ied as:		Adults	Intervention:		
blue body, imprinted with " 💭 109"	on the cap and	The safety of esomeprazole magnesium delayed-release capsules was evaluated in over 15,000 patients (aged 18 to 84			
blue body, imprinted with " 💭 108"	on the cap and	years) in clinical trials worldwide including over 8,500 patients in the United States and over 6,500 patients in Europe and Canada. Over 2,900 patients were treated in long-term studies for up to 6 to 12 months.	Methotrexate Clinical Impact:		
raindicated in patients with known rmulation. Hypersensitivity reactio acute tubulointerstitial nephritis, ar	ns may include	The safety in the treatment of healing of EE in adults was assessed in four randomized comparative clinical trials, which included 1,240 patients who received esomeprazole magnesium delayed-release capsules 20 mg once daily, 2,434 patients on esomeprazole magnesium delayed-release capsules 40 mg once daily, and 3,008 patients on omeprazole 20 mg once daily. The most frequently occurring adverse reactions (at least 1%) in all three groups were headache (5.5%, 5%, and 3.8%, respectively) and diarrhea (no difference among the three groups). Nausea, flatulence, abdominal pain,	Intervention:		

## patients on esomeprazole mai indicated in patients with known hypersensitivity indicated in patients with known hypersensitivity nulation. Hypersensitivity reactions may include cute tubulointerstitial nephritis, and urticaria *[see* 5%, and 3.8%, respectively) and diarrhea (no difference among the three groups). Nausea, flatulence, abdominal pain, constipation, and dry mouth occurred at similar rates among patients taking esomeprazole magnesium or omeprazole. mycin, indicated in combination with Esomeorazole Less common adverse reactions with an incidence of less than 1% are listed below by body system: With indicated in combination with Esonaphazote educe the risk of duodenal ulcer recurrence, refer ation. Body as a Whole: abdomen enlarged, allergic reaction, asthenia, back pain, chest pain, substernal chest pain, facial edema, peripheral edema, hot flushes, fatigue, fever, flu-like disorder, generalized edema, leg edema, malaise, pain, Clopidogref Delayed-Release Capsules, are contraindicated in rigors; Cardiovascular: flushing, hypertension, tachycardia; Endocrine: goiter;

Gastrointestinal: bowel irregularity, constipation aggravated, dyspepsia, dysphagia, dysplasia GI, epigastric pain, esium delayed-release capsules does not preclude ind diagnostic testing in adult patients who have eting treatment with a PPI. In older patients, also Hearing: earache, tinnitus; Hematologic: anemia, anemia hypochromic, cervical lymphadenopathy, epistaxis, leukocytosis, leukopenia, Clinical Impact: thrombocytopenia;

s taking PPIs and may occur at any point during *Henatic*: bilinguing henatic function abnormal. SGOT increased. SGPT increased: Is darfin any occur at any point camp point

nal manifestations (e.g., fever, rash or arthralgia). d evaluate patients with suspected acute TIN [see hermanica: rheumatica:

Mervous System/Psychiatric: anorexia, apathy, appetite increased, confusion, depression aggravated, dizziness, hypertonia, nervousness, hypoesthesia, impotence, insomnia, migraine, migraine aggravated, paresthesia, sleep disorder, somnolence, tremor, vertigo, visual field defect; diarrhea, especially in hospitalized patients. This Adverse Beactions (6.2)

Respiratory: asthma aggravated, coughing, dyspnea, larynx edema, pharyngitis, rhinitis, sinusitis;

Appropriate to the continuon being treated. d with use of nearly all antibacterial agents. For amoxicillin) indicated for use in combination with tys and Precautions section of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding Section 2 approximation and a precision of the corresponding approximation and a precision and a precision of the corresponding approximation approximatio

Urogenital: abnormal urine, albuminuria, cystitis, dysuria, fungal infection, hematuria, micturition frequency, moniliasis, genital moniliasis, polyuria;

b) inhibitor (PPI) therapy may be associated with an spine. The risk of fracture was increased in patients should rate to the condition being treated. Patients should rate to the condition being treated. Patients at risk o established treatment guidelines *[see Dosage* and the block conductive treatment guidelines is the block conductive treatment guideling is the block condu

Endoscopic findings that were reported as adverse reactions include: duodenitis, esophagitis, esophageal stricture, sophageal ulceration, esophageal varices, gastric ulcer, gastritis, hernia, benign polyps or nodules, Barrett's esophagus, drome (SJS) and toxic epidermal necrolysis (TEN), and mucosal discoloration.

and acute generalized exanthematous pustholosis dverse Reactions (6.2)). Discontinue esomeprazole s of severe cutaneous adverse reactions or other Two placebo-controlled studies were conducted in 710 adult patients for the treatment of symptomatic GERD. The most

common adverse reactions that were reported were: diarrhea (4%), headache (4%), and abdominal pain (4%). ematosus (SLE) have been reported in patients Combination Treatment with Esomeprazole Magnesium Delayed-Release Capsules, Amoxicillin and Clarithromycin

ematosus (SLE) have been reported in patients s both new onset and an exacerbation of existing is cases were CLE. In clinical trials of *H. pylori* eradication of to reduce duodenal ulcer recurrence, no additional adverse reactions specific to the combination of esomeprazole magnesium delayed-release capsules, amoxicillin and clarithromycin were observed and were similar to those observed with esomeprazole magnesium delayed-release capsules, amoxicillin, or to the claritic data. The meet frauentity reported adverse reactions for natients who received esomeprazole magnesium Phy was subacute LLE (SLLE) and occurred within observed and were similar to those observed with esomeprazole magnesium delayed-release capsules, amoxicillin, or farming anone. The most frequently reported adverse reactions for patients who received esomeprazole magnesium delayed-release capsules, amoxicillin and clarithromycin for 10 days were diarrhea (9%), taste perversion (4%), and clarithromycin days to years after initiating treatment majority of patients presented with rash; however, capsules anone. The most frequently reported adverse reactions for patients who received esomeprazole magnesium delayed-release capsules, amoxicillin and clarithromycin for 10 days were diarrhea (9%), taste perversion (4%), and abdominal pain (4%). No adverse reactions were observed at higher rates with esomeprazole magnesium delayed-release capsules, amoxicillin and clarithromycin than were observed with esomeprazole magnesium delayed-release capsules alone.

In clinical trials using of esomeprazole magnesium delayed-release capsules, amoxicillin and clarithromycin, no additional signs or symptoms consistent with CLE or SLE are asse capsules, discontinue the drug and refer the For more information on adverse reactions and laboratory changes with amoxicillin or clarithromycin, refer to Adverse

ove with discontinuation of the PPI alone in 4 to 12 Reactions section of the respective prescribing informatio serological test results may take longer to resolve Pediatrics

e capsules with clopidogrel. Clopidogrel is a prodrus, active metabolite. The metabolism of clopidogrel is a prodrus, active metabolite. The metabolism of clopidogrel is a prodrus, such as esomeprazole, that inhibit CYP2C19 sduces the pharmacological activity of clopidogrel.
The safety of esomeprazole magnesium delayed-release capsules and esomeprazole magnesium for delayed-release oral suspension was evaluated in 316 pediatric and adolescent patients aged 1 year to 17 years in four clinical trials for the treatment of symptomatic GERD (see Clinical Studies (14.3)). In 109 pediatric patients aged 1 year to 11 years, the most and esomeprazole grade and esomeprazole magnesium for delayed-release oral suspension was evaluated in 316 pediatric and adolescent patients aged 1 year to 17 years in four clinical trials for the treatment of symptomatic GERD (see Clinical Studies (14.3)). In 109 pediatric patients aged 1 year to 11 years, the most and esomeprazole grade and esomeprazole magnesium for delayed-release oral suspension was evaluated in 316 pediatric and adolescent patients aged 1 year to 11 years, the most and esomeprazole grade and esomeprazole magnesium delayed-release capsules and esomeprazole magnesium for delayed-release oral suspension was evaluated in 316 pediatric patients aged 1 year to 11 years, the most and esomeprazole grade and esomeprazole magnesium delayed-release capsules and esomeprazole magnesium for delayed-release oral suspension was evaluated in 316 pediatric patients aged 1 year to 11 years, the most and esomeprazole grade and esomeprazole (at least 1%) treatment-related adverse reactions in these patients were diarrhea (3%) headache (24.3) consider alternative anti-platelet therapy [see Drug (at least 2%) were headache (8%), abdominal pain (3%), diarrhea (2%), and nausea (2%).

 A maximum dosage of 20 mg once daily is recommended for patients with severe liver impairment (Child-PugG Icass C).
 A maximum dosage of 20 mg once daily is recommended for patients with severe liver impairment (Child-PugG Icass C).
 A maximum dosage of 20 mg once daily is recommended for patients with severe liver impairment (Child-PugG Icass C).
 A maximum dosage of 20 mg once daily is recommended for patients with severe liver impairment (Child-PugG Icass C).
 A maximum dosage of 20 mg twice daily is recommended for patients with severe liver impairment (Child-PugC Icass C).
 B Cyanocobalamin (Vitamin B-12) Deficiency Daily reatment may be required to achiorhydria. Rare reports of cyanocobalamin (vitamin B-12) caused by hypo- or achiorhydria. Rare reports of cyanocobalamin the literature. This diagnosis should be for patients with severe liver impairment (Child-PugC Icass C).
 A starting dosage of 20 mg twice daily is recommended for patients with severe liver impairment (Child-PugC Icass C).
 B Cyanocobalamin (vitamin B-12) caused by hypo- or achiorhydria. Rare reports of cyanocobalamin (vitamin B-12) caused by hypo- or achiorhydria. Rare reports of cyanocobalamin the literature. This diagnosis should be for patients with severe liver impairment (Child-PugC Icass C).
 A starting dosage of 20 mg twice daily is recommended for patients with severe liver impairment (Child-PugC Icass C).
 A starting dosage of 20 mg twice daily is recommended for patients with severe liver impairment (Child-PugC Icass C).
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 A starting dosage of 20 mg twice daily is recommended for patients with severe liver impairment (Child-PugC Icass C).
 A starting dosage of 20 mg twice daily is recommended for patients with severe liver impairment (Child-PugC Icass C).</l The following adverse reactions have been identified during nost-approval use of ecomentatole. Because these reactions

## Eye: blurred vision; Gastrointestinal: pancreatitis; stomatitis; microscopic colitis; fundic gland polyps;

# ayed-Release Capsules in Pediatric Patients by |For patients expected to be on prolonged treatment or who take PPIs with medications such as digoxin or drugs that may Nervous System: hepatic encephalopathy, taste disturbance cause hypomagnesemia (e.g., diuretics), health care professionals may consider monitoring magnesium levels prior to Psychiatric: aggression, agitation, depression, hallucination Renal and Urinary: interstitial nephritis; Duration Initiation of PPI treatment and periodically *[see Adverse neacuons (o.c.).* Consider monitoring magnesium and calcium levels prior to initiation of esomeprazole magnesium delayed-Respiratory, Thoracic, and Mediastinal: bronchosp

cute generalized exanthematous pustulosis (AGEP), cutaneous lupus erythematosus. Adverse reactions associated with omeprazole may also be expected to occur with esomeprazole. See the full prescribing formation for omeprazole for complete safety information.

Consult the labeling of concomitantly used drugs to obtain further information about interactions with PPIs. Table 3: Clinically Relevant Interactions Affecting Drugs Co-Administered with Esomeprazole and Interaction 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 the decreased exposure of some antiretroviral drugs (e.g., rilpivirine atazanavir, and the decreased exposure of some antiretroviral drugs (e.g., rilpivirine atazanavir, and the decreased exposure of some antiretroviral drugs (e.g., rilpivirine atazanavir, and the decreased exposure of some antiretroviral drugs (e.g., rilpivirine atazanavir, and the decreased exposure of some antiretroviral drugs (e.g., rilpivirine atazanavir, and the decreased exposure of some antiretroviral drugs (e.g., rilpivirine atazanavir, and the decreased exposure of some antiretroviral drugs (e.g., rilpivirine atazanavir, and the decreased exposure of some antiretroviral drugs (e.g., rilpivirine atazanavir, and the decreased exposure of some antiretroviral drugs (e.g., rilpivirine atazanavir, and the decreased exposure of some antiretroviral drugs (e.g., rilpivirine atazanavir, and the decreased exposure of some antiretroviral drugs (e.g., rilpivirine atazanavir, and the decreased exposure of some antiretroviral drugs (e.g., rilpivirine atazanavir, and the decreased exposure of some attractions at the decreased exposure of some at Rilpivirine-containing products: Concomitant use with esomeprazole magnesium delayed-Hilpvinne-containing products: Concomitant use with esomeprazole magnesium delayed-release capsules is contraindicated (see Contraindications (4)). Atazanavir: See prescribing information for atazanavir for dosing information. Nelfinavir: Avoid concomitant use with esomeprazole magnesium delayed-release capsules. See prescribing information for nationally recognized pregnancies is 2 See prescribing information for nationally recognized pregnancies is 2 See prescribing information for nationally recognized pregnancies is 2 See prescribing information for nationally recognized pregnancies is 2 15% to 20%, respectively. Atazanavir: See prescribing information for atazanavir for dosing information.

prescribing information for nelfinavir. Saquinavir: See the prescribing information for saquinavir for monitoring of potential

Other antiretrovirals: See prescribing information for specific antiretroviral drugs. reased INR and prothrombin time in patients receiving PPIs, includi

target INR range.

Concomitant use of esomeprazole 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 (5.12]]. A temporary withdrawal of esomeprazole magnesium delaved-release cansules may be A temporary withdrawal of esomeprazole magnesium delayed-release capsules may be A retrospective cohort study reported on 689 pregnant women exposed to either H<sub>2</sub>-blockers or omepra

considered in some patients receiving high-dose methotrexate. 2C19 Substrates (e.g., clopidogrel, citalopram, cilostazol)

> comitant use of esomeprazole 40 mg resulted in reduced plasma conce Pharmacology (12.3)].

dose of clopidogrel in comparison with the approved dose of clopidogrel. Organization of the approved dose of clopidogrel. Organization of the approved as used of the approve use of alternative anti-platelet therapy [see Warnings and Precautions (5.7)].

Increased exposure of citalopram leading to an increased risk of QT prolongation [see] Reproductive studies conducted with omeprazole in rats at oral doses up to 138 mg/kg/day (about 3

Increased exposure of cilostazol and one of its active metabolites (3,4-dihydro-cilostazol) (see Cinical Pharmacology (12.3). Consider reducing the dose of cilostazol to 50 mg twice daily. See prescribing information Consider reducing the dose of cilostazol to 50 mg twice daily. See prescribing information

Potential for increased exposure of digoxin [see Clinical Pharmacology (12.3)] Monitor digoxin concentrations and adjust the dose, if needed, to maintain therapeutic d

ntrations. See prescribing information for digoxin. 

 concentrations. See prescribing information for digoxin.
 A pre- and postnatal developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with additional endpoints to evaluate bone developmental toxicity study in rats with evaluate bone developmental developmenta apy with Clarithromycin and Amoxicillin

reactions, including potentially fatal arrhythmias, and are contraindicated. Amoxicillin also has drug interactions. See Contraindications, Warnings and Precautions in prescribing information for

clarithromycin. See Drug Interactions in prescribing information for amoxicillin

Drugs Dependent on Gastric pH for Absorption (e.g., iron salts, erlotinib, dasatinib, nilotinib, mycophenolate Physeal dysplasia in the femur was observed in offspring of rats treated with oral doses of esomepra-

aconazole)
Esomeprazole can reduce the absorption of other drugs due to its effect on reducing
Effects on maternal bone were observed in pregnant and lactating rats in a pre- and postnatal toxic:
Effects on maternal bone were observed in pregnant and lactating rats in a pre- and postnatal toxic.

Intragastric acidity. Mycophenolate mofetil (MMF): Co-administration of omeprazole, of which esomeprazole magnesium was administered at oral doses of 14 to 280 mg/kg/day (about 3.4 to 68 times a dose of 40 mg on a body surface area basis). When rats were dosed from gestational day 7 through weaning dose of 40 mg on a body surface area basis). When rats were dosed from gestational day 7 through weaning dose of 40 mg on a body surface area basis). When rats were dosed from gestational day 7 through weaning dose of 40 mg on a body surface area basis). When rats were dosed from gestational day 7 through weaning dose of 40 mg on a body surface area basis). When rats were dosed from gestational day 7 through weaning was observed at doses equal to or greater than 138 mg/kg/day (about 3.4 to 68 times a dose of 40 mg on a body surface area basis). When rats were dosed from gestational day 7 through weaning was observed at doses equal to or greater than 138 mg/kg/day (about 3.4 times an oral human dose of 40 mg on second provide doses of use of the cabout 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 a doses of use of the cabout 3.4 to 68 times and one weap of the cabout 3.4 to 68 times and to accrease in maternal formulation and the cabout 3.4 to 68 times and the cabout 3.4 to 68 times and the cabout 3.4 to 68 times and to accrease in maternal formulation and the cabout 3.4 to 68 times and to accrease times and maternal toxicity in rats with exponent 1.4 times and the cabout 3.4 to 68 times and toxicity thread to accrease times and the cabout 3.4 to 68 times and toxicity study in rats with further time points to evaluate pub one development for the cabout 3.4 times and the cabout 3.4 to 68 times and toxicity study in rats with further time points to evaluate pub one development for the cabout 3.4 times and

Monitor tacrolimus whole blood concentrations and consider reducing the dose, if needed, to Risk Summary Interactions with Investigations of Neuroendocrine Tumors

Discontinue esomeprazole magnesium delayed-release capsules at least 14 days before Healing of EE assessing CgA levels and consider repeating the test if initial CgA levels are high. If serial Pediatric Patients 1 Year to 17 Years of Age tests are performed (e.g. for monitoring), the same commercial laboratory should be used for testing, as reference ranges between tests may vary. The safety and effectiveness of esomeprazole magnesium delayed-release capsules have been establis patients 1/2 years to 17 years for short-term treatment (4 to 8 weeks) for healing of EE. Use of esomepra

Discontinue esomeprazole magnesium delayed-release capsules 4 weeks prior to testing

Pharmacology (12.2)] e Positive Urine Tests for THC

There have been reports of false positive urine in patients receiving PPIs. An alternative confirmatory method should be considered to verify positive results

# Table 4: Clinically Relevant Interactions Affecting Esomeprazole When Co-Administered with O CYP2C19 or CYP3A4 Inducers

inical Impact:	Clinical Pharmacology (12.3)].
ervention:	St. John's Wort, rifampin: Avoid concomitant use with [see Warnings and Pred
	Ritonavir-containing products: see prescribing information for specific drugs.
riconazole	
inical Impact:	Increased exposure of esomeprazole [see Clinical Pharmacology (12.3)].
ervention:	Dose adjustment of esomeprazole magnesium delayed-release capsules required. However, in patients with Zollinger-Ellison syndrome, who may doses, dosage adjustment may be considered. See prescribing information for voriconazole.
	5

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy Risk Summary

nelfinavir) when used concomitantly with esomeprazole may reduce antiviral effect and promote the development of drug resistance *(see Clinical Pharmacology (12.3))*. rabbits resulted in dose-dependent embryo-lethality at omeprazole doses that were approximately 3.4 to human dose of 40 mg (based on a body surface area for a 60 kg person).

Increased exposure of other antiretroviral drugs (e.g., saquinavir) when used Teratogenicity was not observed in animal reproduction studies with administration of oral esomeprazol concomitantly with esomeprazole may increase toxicity [see Clinical Pharmacology] rats and rabbits with doses about 68 times and 42 times, respectively, an oral human dose of 40 mg (12.3)]. There are other antiretroviral drugs which do not result in clinically relevant interactions with esomeprazole. Ibiovrine-containing products: Concomitant use with esomeprazole magnesium delaved-Ibiovrine-containing products: Concomitant use with

luman Data

Esomeprazole is the S-isomer of omeprazole. Four epidemiological studies compared the frequence abnormalities among infants born to women who used omeprazile during prepancy with the frequency among infants of women exposed to H<sub>2</sub>-receptor antagonists or other controls.

A population-based retrospective cohort epidemiological study from the Swedish Medical Birth Re Application based relassibility increases in INR and prothrombin time may lead to abnormal bleeding and even death. Monitor INR and prothrombin time and adjust the dose of warfarin, if needed, to maintain the monitor INR and prothrombin time and adjust the dose of warfarin, if needed, to maintain the monitor INR and prothrombin time and adjust the dose of warfarin, if needed, to maintain the monitor INR and prothrombin time and adjust the dose of warfarin, if needed, to maintain the monitor INR and prothrombin time and adjust the dose of warfarin, if needed, to maintain the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR and prothrombin time and adjust the dose of warfarin and the monitor INR adjust the dose of warfarin adjust the dose of warfaring the monitor the moninteres adjust the monito weight, low Apgar score, or hospitalization was similar to the number observed in this population. The r born with ventricular septal defects and the number of stillborn infants was slightly higher in the ome infants than the expected number in this population

Trimester (134 exposed to omeprazole) and 1,572 pregnant women exposed to other 1<sub>2</sub>-otheration of the overall malformation rate in offspring born to mothers with first trimester exposure to omeprazole, an H<sub>2</sub>-unexposed was 3.6%, 5.5%, and 4.1% respectively.

A small prospective observational cohort study followed 113 women exposed to omeprazole during pred Concomitant use of esomeprazole 40 mg resulted in reduced plasma concentrations of the active metabolite of clopidogrel and a reduction in platelet inhibition [see Clinical Pharmacelet: (12.3) Pharmacology (12.3)]. There are no adequate combination studies of a lower dose of esomeprazole or a higher dose of clopidogrel in comparison with the approved dose of clopidogrel. preterm delivenes, gestational age at delivery, and mean on the first when single dose or al omeprazole was administered to over 200 pregnant women as premedication for cesarean section

### Animal Data <u>Omeprazole</u>

Clinical Pharmacology (12.3)]. Limit the dose of citalopram to a maximum of 20 mg per day. See prescribing information for citalopram. See prescribing information the producted with one phase of a state at our al obsets at the set and state at our al obsets at the set at the set at our al obsets at the set at dose-related increases in embryo-lethality, fetal resorptions, and pregnancy disruptions. In rats, dose

## **Esomeprazole**

No effects on embryo-fetal development were observed in reproduction studies with esomeprazole made dministered during organogenesis.

equal to or greater than 138 mg/kg/day (about 34 times an oral human dose of 40 mg on a body surf Body weight and body weight gain were reduced and neurobehavioral or general developmental delays weaning timeframe were evident at doses equal to or greater than 69 mg/kg/day (about 17 times does of 40 mg on a body surface area basis). In addition, decreased femur length, width and thickness of decreased thickness of the tibial growth plate and minimal to mild bone marrow hypocellularity were n equal to or greater than 14 mg/kg/day (about 3.4 times an oral human dose of 40 mg on a body surface at doses equal to or greater than 138 mg/kg/day (about 34 times an oral human dose of 40 mg on a bo

A follow up developmental toxicity study in rats with further time points to evaluate pup bone development 

 Clinical Pharmacology (12.3)].
 A toliow up developmental toxicity study in rats with further time points to evaluate pup bone development

 See the prescribing information for other drugs dependent on gastric pH for absorption.
 A toliow up developmental toxicity study in rats with further time points to evaluate pup bone development

 day 2 to adulthood was performed with esomeprazole magnesium at oral doses of 280 mg/kg/day (abou oral human dose of 40 mg on a body surface area basis) where esomeprazole administration was form did by 7 or gestational day 16 until parturition. When maternal administration was confined to gestation only, effects on bone physeal morphology in the offspring at any age.

## 8.2 Lactation

 Monitor tacrolimus whole blood concentrations and consider reducing the dose, if needed, to maintain therapeutic drug concentrations. See prescribing information for tacrolimus.
 <u>Bisk Summary</u>

 sigations of Neuroendocrine Tumors
 Esomeprazole is the S-isomer of omeprazole and limited data suggest that omeprazole may be present in There are no clinical data on the effects of esomeprazole on the breastfed infant or on milk production. The d and health benefits of breastfeeding should be considered along with the mother's clinical need for e magnesium delayed-release capsules and any potential adverse effects on the breastfed infant from e magnesium delayed-release capsules or from the underlying maternal condition.

 4.0
 Dediction for

## 8.4 Pediatric Use

Hyper-response in gastrin secretion in response to secretin stimulation test, falsely suggesting gastrinoma. The safety and effectiveness of esomeprazole magnesium delayed-release capsules for the treatment of mediated GERD in pediatric patients less than 1 year of age have not been established.

Symptomatic GERD

Pediatric Patients 1 Year to 17 Years of Age The safety and effectiveness of esomeprazole magnesium delayed-release capsules have been establish

atients 12 years to 17 years of age for the short-term treatment (4 weeks) of heartburn and other symp with GERD. Use of esomeprazole magnesium for this indication is supported by evidence from adeq controlled studies in adults with additional safety and pharmacokinetic data in pediatric patients 1 year age. The safety profile in pediatric patients 1 year to 17 years of age was similar to adults *[see Adverse : Clinical Pharmacology (12.3), Clinical Studies (14.4)].* 

The safety and effectiveness of esomerazion and each of the safety and effectiveness of esomerazion magnesium delayed-release capsules for the treatment of symptomatic GERD in pediatric patients less than 1 year of age have not been established.

# CRESTEC

CRESTEC							
Client:	宜昌人福	Description:	35g 圣经纸	Date:	Brief:	Date:	Brief:
Size:	864X328 mm(展开) 38X35 mm(成品)	Item No:		2023-06-15	新排		
Job No:	CSH2023F0136	DTP:	Roy	2023-06-20	修改		
名称:	Esomeprazole Magnesium ER Capsules						

Clinical Impact:

Skin and Subcutaneous Tissue: alopecia, erythema multiforme, hyperhidrosis, photosensitivity, Stevens-Johnson syndrome, toxic epidermal necrolysis (some fatal), drug reaction with eosinophilia and systemic symptoms (DRESS), and

DRUG INTERACTIONS

Tables 3 and 4 include drugs with clinically important drug interactions and interaction with diagnostics when administered concomitantly with esomeprazole and instructions for preventing or managing them.

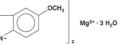
isee	MEDICATION GUIDE Esomeprazole Magnesium (es" oh mep' ra zole mag nee' zee um)	<ul> <li>Do not take esomeprazole magnesium delayed-release capsules if you are:</li> <li>allergic to esomeprazole magnesium, any other PPI medicine, or any of the</li> </ul>
0)].	Delayed-Release Capsules, for oral use	ingredients in esomeprazole magnesium delayed-release capsules. See the end of this Medication Guide for a complete list of ingredients in esomeprazole
ally her	What is the most important information I should know about esomeprazole magnesium delayed-release capsules?	magnesium delayed-release capsules. Tell your doctor right away or get emergency medical help if you get any of the following symptoms of an allergic reaction with esomeprazole magnesium
	Esomeprazole magnesium delayed-release capsules may help your acid- related symptoms, but you could still have serious stomach problems. Talk	delayed-release capsules:o rasho throat tightness
mer ions	with your doctor.	<ul> <li>face swelling</li> <li>taking a medicine that contains rilpivirine (EDURANT, COMPLERA, ODEFSEY)</li> </ul>
and oral m in	Esomeprazole magnesium delayed-release capsules can cause serious side effects, including:	used to treat HIV-1 (Human Immunodeficiency Virus).
oody ough mg. the	• A type of kidney problem (acute tubulointerstitial nephritis). Some people who take proton pump inhibitor (PPI) medicines, including esomeprazole	Before taking esomeprazole magnesium delayed-release capsules, tell your doctor about all of your medical conditions, including if you:
. All	magnesium delayed-release capsules, may develop a kidney problem called acute tubulointerstitial nephritis that can happen at any time during treatment	<ul> <li>have low magnesium levels, low calcium levels and low potassium levels in your blood.</li> </ul>
and	with esomeprazole magnesium delayed-release capsules. Call your doctor right away if you have a decrease in the amount that you urinate or if you have blood	<ul> <li>have liver problems.</li> <li>are pregnant or plan to become pregnant. It is not known if esomeprazole</li> </ul>
nital ities	<ul> <li>in your urine.</li> <li>Diarrhea caused by an infection (<i>Clostridium difficile</i>) in your intestines.</li> </ul>	<ul> <li>are breastfeeding or planning to breastfeed. Esomeprazole magnesium magnesium</li></ul>
ring ster ised birth	Call your doctor right away if you have watery stools or stomach pain that does not go away. You may or may not have a fever.	pass into your breast milk. Talk to your doctor about the best way to feed your baby if you take esomeprazole magnesium delayed-release capsules.
ants osed	<ul> <li>Bone fractures (hip, wrist, or spine). Bone fractures in the hip, wrist, or spine may happen in people who take multiple daily doses of PPI medicines and for a long period of time (a year or longer). Tell your doctor if you have a bone</li> </ul>	Tell your doctor about all of the medicines you take, including prescription and
800 hers ster iring	<ul> <li>Certain types of lupus erythematosus. Lupus erythematosus is an</li> </ul>	over-the-counter medicines, vitamins, and herbal supplements.
first The vere	autoimmune disorder (the body's immune cells attack other cells or organs in the body). Some people who take PPI medicines, including esomeprazole	<b>Especially tell your doctor if you take:</b> clopidogrel (Plavix), methotrexate (Otrxup, Rasuvo, Trexall, XATMEP), digoxin (LANOXIN), rilpivirine (EDURANT), St. John's Wort (Hypericum perforatum), or rifampin (Rimactane, Rifater, Rifamate).
with % in ons,	magnesium delayed-release capsules, may develop certain types of lupus erythematosus or have worsening of the lupus they already have. Call your	
nous eral	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.	<ul> <li>How should I take esomeprazole magnesium delayed-release capsules?</li> <li>Take esomeprazole magnesium delayed-release capsules exactly as prescribed by your doctor.</li> </ul>
oral	Talk to your doctor about your risk of these serious side effects.	<ul> <li>Do not change your dose or stop esomeprazole magnesium delayed-release capsules without talking to your doctor.</li> </ul>
mes e for 4 to uced	Esomeprazole magnesium delayed-release capsules can have other serious side effects. See "What are the possible side effects of esomeprazole magnesium	• Take esomeprazole magnesium delayed-release capsules at least 1 hour before a meal.
ryo/ with area	delayed-release capsules?"	• Antacids may be taken with esomeprazole magnesium delayed-release capsules.
rats or in asis)	What are esomeprazole magnesium delayed-release capsules?	<ul> <li>Swallow esomeprazole magnesium delayed-release capsules whole. Never chew or crush esomeprazole magnesium delayed-release capsules.</li> </ul>
was man	A prescription medicine called a proton pump inhibitor (PPI) used to reduce the amount of acid in your stomach.	<ul> <li>If you have difficulty swallowing esomeprazole magnesium delayed-release capsules, you may open the capsule and empty the granules into 1 tablespoon of applesauce. The applesauce used should not be hot and should be soft</li> </ul>
oses sis). liate man	<ul> <li>Esomeprazole magnesium delayed-release capsules are used in adults for:</li> <li>4 to 8 weeks for the healing and symptom relief of acid-related damage to the</li> </ul>	enough to swallow without chewing. Do not mix the esomeprazole magnesium delayed-release capsules with any other food.
one, oses sis). sium	esophagus (erosive esophagitis or EE). Your doctor may prescribe another 4 to 8 weeks of esomeprazole magnesium delayed-release capsules in patients	<ul> <li>Do not crush or chew the granules. Be sure to swallow the applesauce right away. Throw away any remaining mixture. Do not store it for later use.</li> </ul>
area 'hen	<ul><li>whose EE does not heal.</li><li>maintaining healing of EE.</li></ul>	<ul> <li>If you forget to take a dose of esomeprazole magnesium delayed-release capsules, take it as soon as you remember. If it is almost time for your next</li> </ul>
man natal nent) pody	• 4 to 8 weeks to treat heartburn and other symptoms that happen with gastroesophageal reflux disease (GERD).	dose, do not take the missed dose. Take the next dose on time. Do not take a double dose to make up for a missed dose.
d to	• up to 6 months to reduce the risk of stomach ulcers in some people taking pain medicines called non-steroidal anti-inflammatory drugs (NSAIDs).	<ul> <li>If you take too much esomeprazole magnesium delayed-release capsules, call your doctor or local poison control center right away at 1-800-222-1222, or go</li> </ul>
natal s an onal e no	• treating patients with a stomach infection ( <i>Helicobacter pylori</i> ) and a stomach ulcer, along with the antibiotics amoxicillin and clarithromycin.	<ul> <li>See the Instructions for Use at the end of this Medication Guide for</li> </ul>
nilk.	<ul> <li>the long-term treatment of conditions where your stomach makes too much acid, including Zollinger-Ellison Syndrome. Zollinger-Ellison Syndrome is a rare condition in which the stomach produces a more than normal amount of acid</li> </ul>	instructions how to mix and give esomeprazole magnesium delayed-release capsules through a nasogastric tube.
ntal zole zole	condition in which the stomach produces a more than normal amount of acid.	What are the possible side effects of esomeprazole magnesium delayed-
	<ul> <li>Esomeprazole magnesium delayed-release capsules are used in children and adolescents 12 to 17 years of age for:</li> <li>4 to 8 weeks to heal EE.</li> </ul>	release capsules? Esomeprazole magnesium delayed-release capsules can cause serious side
itric ium and	<ul> <li>4 weeks to treat heartburn and other symptoms that happen with GERD.</li> </ul>	effects, including: • See "What is the most important information I should know about
o 17 icid-	It is not known if esomeprazole magnesium delayed-release capsules are safe and effective in children to reduce the risk of stomach ulcers in children who take medicines called NSAIDs, to treat <i>Helicobacter pylori</i> stomach infection to lower	<ul> <li>esomeprazole magnesium delayed-release capsules?"</li> <li>Low vitamin B-12 levels in your body can happen in people who have taken esomeprazole magnesium delayed-release capsules for a long time (more than</li> </ul>
atric ated rell- s of <i>5.1),</i>	the risk of a stomach ulcer returning, and to treat conditions where your stomach makes too much acid.	3 years). Tell your doctor if you have symptoms of low vitamin B-12 levels, including shortness of breath, lightheadedness, irregular heartbeat, muscle weakness, pale skin, feeling tired, mood changes, and tingling or numbness in
natic		the arms and legs.

<ul> <li>Low magnesium levels in your body can happen in people who have taken esomeprazole magnesium 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.</li> <li>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 growths called fundic gland polyps, especially after taking PPI medicines for more than 1 year.</li> </ul>		Other Conditions The safety and effectiveness of esomer			
<ul> <li>weakness, and spasms of hands, feet or voice.</li> <li>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 growths called fundic gland polyps, especially after taking PPI medicines for</li> </ul>		associated gastric ulcer, <i>H. pylori</i> era pathological hypersecretory conditions ha <u>Juvenile Animal Toxicity Studies</u> In a juvenile rat toxicity study, esomepra about 34 to 68 times a daily human dose	ave not been established in pediatric patie azole was administered with both magne	al ulcer recurrence and treatment of ents. sium and strontium salts at oral doses	
<ul> <li>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 growths called fundic gland polyps, especially after taking PPI medicines for</li> </ul>	https://somersetpharma.com	dose, and at all doses of esomeprazole, t length, and decreases in overall growth [	there were decreases in body weight, bod		
more man r year.	Yichang Humanwell Oral Solid Dosage Plant	8.5 Geriatric Use Of the total number of patients who rece were 65 to 74 years of age and 354 patie No overall differences in safety and eff reported clinical experience has not ident sensitivity of some older individuals cann	ived esomeprazole magnesium delayed- ints were 75 years of age and older. ficacy were observed between the elder tifled differences in responses between el	rly and younger individuals, and other	1. Va Esor syst Con incr 159
<ul> <li>Severe skin reactions. Esomeprazole magnesium 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</li> </ul>	Somerset Therapeutics, LLC	8.6 Hepatic Impairment In patients with severe hepatic impair compared to healthy subjects. Dosag recommended for patients with severe gastric ulcer, <i>H. pylori</i> eradication to re conditions including Allinger, Ellicon Sun	le modification of esomeprazole magi hepatic impairment for the healing of E educe the risk of duodenal ulcer recurre	nesium delayed-release capsules is E, risk reduction of NSAID-associated ence, and pathological hypersecretory	201
<ul> <li>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).</li> <li>You may also have fever, chills, body aches, shortness of breath, or</li> </ul>	Revised: 06/2023	conditions including Zollinger-Ellison Syn In patients with mild to moderate liver im <b>10 OVERDOSAGE</b> Manifestations in patients exposed to or recommended clinical dose) include cor headache, dry mouth, and other adve prescribing information for omeprazole fi	pairment (Child-Pugh Classes A and B), n meprazole, the racemic mixture, at doses nfusion, drowsiness, blurred vision, tach rse reactions similar to those seen at	o dosage adjustment is necessary. s up to 2,400 mg (120 times the usual ycardia, nausea, diaphoresis, flushing, recommended dosages. See the full	Exci
enlarged lymph nodes. Stop taking esomeprazole magnesium delayed-release capsules and call your doctor right away. These symptoms may be the first sign of a severe skir reaction.	Esomeprazole Magnesium (es" oh mep' ra zole mag nee' zee um) Delayed-Release Capsules	Since esomeprazole is extensively proteil treatment should be symptomatic and su If over-exposure occurs, call your Poison of poisoning or overdosage. 11 DESCRIPTION The active ingredient in Esomeprazo	pportive. Control Center at 1-800-222-1222 for c	urrent information on the management	in th rem <u>Con</u> Eso 1,0 me
The most common side effects of esomeprazole magnesium delayed-release capsules include:	For instructions on taking Delayed-Release Capsules, see the section of this leaflet called "How should I take esomeprazole magnesium delayed-release capsules?"	bis(5-methoxy-2-[(S)-[(4-methoxy-3,5 trihydrate, a PPI. Esomeprazole magnesium: 2 approval of esomeprazole magnesium: 2 767.2 as a trihydrate and 713.1 on an an	i-dimethyl-2-pyridinyl)methyl]sulfinyl]- isomer of omeprazole, which is a mixtur 001). Its molecular formula is (C <sub>17</sub> H <sub>18</sub> N <sub>3</sub> O <sub>3</sub>	-1 <i>H</i> -benzimidazole-1-yl) magnesium re of the S- and R- isomers. (Initial U.S.	corr eso rele The adn and
<ul> <li>headache</li> <li>diarrhea</li> <li>nausea</li> <li>stomach (abdominal) pain</li> <li>constipation</li> <li>dry mouth</li> </ul>	Esomeprazole Magnesium Delayed-Release Capsules may be given through a nasogastric tube (NG tube), as prescribed by your doctor. Follow the instructions below:	H <sub>3</sub> C N		Mg <sup>2+</sup> · 3 H <sub>2</sub> O	expo Spe Ger The Vou
<ul> <li>gas</li> <li>These are not all the possible side effects of esomeprazole magnesium delayed-</li> </ul>	Formanyazala Magnasium Dalayad Dalagas Consulasi	The magnesium salt is a white to slight slightly soluble in water. The stability of e but it has acceptable stability under alka hours at 25°C and about 8 hours at 37°C Esomeprazole magnesium is supplied i	esomeprazole magnesium is a function of line conditions. At pH 6.8 (buffer), the half	pH; it rapidly degrades in acidic media, f-life of the magnesium salt is about 19	Ped <u>12</u> The wit
release capsules. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.	<ul> <li>Open the capsule and empty the granules into a 60 mL catheter tipped syringe. Mix with 50 mL of water. Use only a catheter tipped syringe to give esomeprazole magnesium delayed-release capsules through a NG tube.</li> <li>Replace the plunger and shake the syringe well for 15 seconds. Hold the syringe</li> </ul>	Capsule, USP contains 20 mg of esome of esomeprazole (equivalent to 44.5 mg with the following inactive ingredients: methacrylic acid and ethyl acrylate copy starch and sucrose), talc, and triethyl ci FD&C Red 3, ferrosoferric oxide, gelatin, Esomeprazole Magnesium Delayed-Relea	g esomeprazole magnesium trihydrate) i glyceryl monostearate, hypromellose, m olymer, polysorbate 80, sodium lauryl sul trate. The capsule shells have the follow potassium hydroxide, shellac, sodium laur	n the form of enteric-coated granules agnesium oxide, magnesium stearate, fate, sugar spheres (composed of corn ing inactive ingredients: FD&C Blue 1, yl sulfate and titanium dioxide.	wer pha
<ul> <li>How should I store esomeprazole magnesium delayed-release capsules?</li> <li>Store esomeprazole magnesium delayed-release capsules at room temperature between 68°F to 77°F (20°C to 25°C).</li> <li>Keep the container of esomeprazole magnesium delayed-release capsules closed tightly.</li> <li>Keep esomeprazole magnesium delayed-release capsules and all medicines out of the reach of children.</li> </ul>	<ul> <li>Attach the syringe to the NG tube. Give the medicine right away in the syringe through the NG tube into the stomach.</li> <li>After giving the granules, flush the NG tube with more water.</li> </ul>	12 CLINICAL PHARMACOLOGY 12.1 Mechanism of Action Esomeprazole belongs to a class of antis secretion by specific inhibition of the H+ Esomeprazole is protonated and convert achiral sulphenamide. Because this enz esomeprazole has been characterized as This effect is dose-related and leads to in 12.2 Pharmacodynamics Antisecretory Activity Adults The effect of esomeprazole on intragastr studies. In the first study of 36 patients administered once daily over 5 days as s	/K+ ATPase enzyme system at the secre ed in the acidic compartment of the parie yme system is regarded as the acid (pr a gastric acid-pump inhibitor, in that it t hibibition of both basal and stimulated acid ic pH was determined in adult patients w , esomeprazole magnesium delayed-rele	tory surface of the gastric parietal cell. etal cell forming the active inhibitor, the ston) pump within the gastric mucosa, olocks the final step of acid production. I secretion irrespective of the stimulus.	Dat
General information about the safe and effective use of esomeprazole	Administration.	Table 5: Effect of Esomeprazole on Int	ragastric pH on Day 5 (N=36) Following Release Capsules in Adult Patients with	g Once Daily Dosing of Esomeprazole n Symptomatic GERD	The oral
magnesium delayed-release capsules.	Manufactured by:	Parameter	Esomeprazole Magnesium 40 mg once daily	Delayed-Release Capsules 20 mg once daily	The
Medicines are sometimes prescribed for purposes other than those listed ir	Yichang Humanwell Oral Solid Dosage Plant	% Time Gastric pH >4 <sup>1</sup> (Hours)	70% <sup>2</sup> (16.8 h)	53% (12.7 h)	Pati The
a Medication Guide. Do not use esomeprazole magnesium delayed-release	57	Coefficient of variation Median 24 Hour pH	26% 4.9 <sup>2</sup>	37% 4.1	rele n=4 GEF
capsules for a condition for which it was not prescribed. Do not give esomeprazole magnesium delayed-release capsules to other people, even if they have the same symptoms you have. It may harm them.	Somerset Therapeutics, LLC Hollywood, FL 33024	Coefficient of variation <sup>1</sup> Gastric pH was measured over a 24-ho <sup>2</sup> p<0.01 esomeprazole magnesium de capsules 20 mg In a second study, the effect on intra	layed-release capsules 40 mg vs. esom gastric pH of esomeprazole magnesiu	um delayed-release capsules 40 mg	the AUC <u>Drug</u> <i>Effe</i>
You can ask your pharmacist or doctor for information about esomeprazole magnesium delayed-release capsules that is written for health professionals.	Customer Care # 1-800-417-9175 Revised: 06/2023	administered once daily over a five-day p <u>Serum Gastrin Effects</u> The effect of esomeprazole on serum ge trials of oral esomeprazole for up to 8 w level increased in a dose-related manne three months of therapy and returned to	astrin concentrations was evaluated in a reeks and in over 1,300 patients for up t r. The increase in serum gastrin concentr	pproximately 2,700 patients in clinical o 12 months. The mean fasting gastrin rations reached a plateau within two to	Dila
		Increased gastrin causes enterochroma The increased CgA levels may cause fal Warnings and Precautions (5.11)]	affin-like cell hyperplasia and increased	serum Chromogranin A (CgA) levels.	40%
What are the ingredients in esomeprazole magnesium delayed-release capsules?		Enterochromaffin-like (ECL) Cell Effects	can obtained from more than 2,000 patie	unto (both padiatrice and adulte) tracted	Follo
capsules? Active ingredient: esomeprazole magnesium trihydrate USP		Human gastric biopsy specimens have b with omeprazole in long-term clinical tri however, no case of ECL cell carcinoid <i>Toxicology (13.1)</i> In over 1,000 patients treated with oral e	als. The incidence of ECL cell hyperplasia ls, dysplasia, or neoplasia has been fou esomeprazole (10 mg, 20 mg or 40 mg/da	a in these studies increased with time; und in these patients <i>[see Nonclinical</i> ay) for up to 12 months, the prevalence	Follo and Ataz Follo deci Saq
capsules? Active ingredient: esomeprazole magnesium trihydrate USP Inactive ingredients in esomeprazole magnesium delayed-release capsules (including the capsule shells): glyceryl monostearate, hypromellose, magnesium oxide, magnesium stearate, methacrylic acid and ethyl acrylate copolymer		Human gastric biopsy specimens have b with omeprazole in long-term clinical tri however, no case of ECL cell carcinoid <i>Toxicology (13.1)</i> In over 1,000 patients treated with oral e of ECL cell hyperplasia increased with tin the gastric mucosa. Endocrine Effects Esomeprazole had no effect on thyroid fu 20 mg or 40 mg once daily for 4 weeks.	als. The incidence of ECL cell hyperplasis ls, dysplasia, or neoplasia has been fou esomeprazole (10 mg, 20 mg or 40 mg/dk ne and dose. No patient developed ECL co nction in adults when given esomeprazole Other effects of esomeprazole on the end	a in these studies increased with time; and in these patients <i>[see Nonclinical</i> ay) for up to 12 months, the prevalence ell carcinoids, dysplasia, or neoplasia in e magnesium delayed-release capsules corine system were assessed in studies	Foll and Ata Foll dec Sao Foll adn inte <i>Clo</i> In a
capsules? Active ingredient: esomeprazole magnesium trihydrate USP Inactive ingredients in esomeprazole magnesium delayed-release capsules (including the capsule shells): glyceryl monostearate, hypromellose, magnesium		Human gastric biopsy specimens have b with omeprazole in long-term clinical tri however, no case of ECL cell carcinoid <i>Toxicology (13.1)]</i> In over 1,000 patients treated with oral e of ECL cell hyperplasia increased with tin the gastric mucosa. Endocrine Effects Esomeprazole had no effect on thyroid fu 20 mg or 40 mg once daily for 4 weeks. I of omeprazole. Oral doses of omeprazol metabolism, circulating levels of paratt secretin. <b>12.3 Pharmacokinetics</b>	als. The incidence of ECL cell hyperplasis Is, dysplasia, or neoplasia has been for esomeprazole (10 mg, 20 mg or 40 mg/d/ me and dose. No patient developed ECL cr nction in adults when given esomeprazole Other effects of esomeprazole on the end/ e 30 mg or 40 mg once daily for 2 to 4	a in these studies increased with time; und in these patients <i>[see Nonclinical</i> ay) for up to 12 months, the prevalence ell carcinoids, dysplasia, or neoplasia in e magnesium delayed-release capsules occine system were assessed in studies weeks had no effect on carbohydrate	Folli and Ata Folli dec Saq Folli adm inte <u>Clo</u> In a as 1
capsules? Active ingredient: esomeprazole magnesium trihydrate USP Inactive ingredients in esomeprazole magnesium delayed-release capsules (including the capsule shells): glyceryl monostearate, hypromellose, magnesium oxide, magnesium stearate, methacrylic acid and ethyl acrylate copolymer polysorbate 80, sodium lauryl sulfate, sugar spheres (composed of corn starch and sucrose), talc, and triethyl citrate. The capsule shells have the following inactive		Human gastric biopsy specimens have b with omeprazole in long-term clinical tri however, no case of ECL cell carcinoid <i>Toxicology (13.1)]</i> In over 1,000 patients treated with oral e of ECL cell hyperplasia increased with tin the gastric mucosa. Endocrine Effects Esomeprazole had no effect on thyroid fu 20 mg or 40 mg once daily for 4 weeks. I of omeprazole. Oral doses of omeprazol metabolism, circulating levels of paratt secretin. <b>12.3 Pharmacokinetics</b> <u>Absorption</u> Esomeprazole magnesium delayed-re administration in 94 healthy male and fi	als. The incidence of ECL cell hyperplasis ls, dysplasia, or neoplasia has been fou esomeprazole (10 mg, 20 mg or 40 mg/da ne and dose. No patient developed ECL co nction in adults when given esomeprazole Other effects of esomeprazole on the end e 30 mg or 40 mg once daily for 2 to 4 tyroid hormone, cortisol, estradiol, testo lease capsules showed similar bioava emale subjects under fasting conditions.	a in these studies increased with time; and in these patients <i>[see Nonclinical</i> ay) for up to 12 months, the prevalence ell carcinoids, dysplasia, or neoplasia in e magnesium delayed-release capsules ocrine system were assessed in studies weeks had no effect on carbohydrate isterone, prolactin, cholecystokinin, or wilability after a single dose (40 mg) After oral administration, peak plasma	Folliliand Ata: Folliliand dec Saq Folliliand inte <i>Cloj</i> peri mea exp <i>Myq</i> Adm
capsules? Active ingredient: esomeprazole magnesium trihydrate USP Inactive ingredients in esomeprazole magnesium delayed-release capsules (including the capsule shells): glyceryl monostearate, hypromellose, magnesium oxide, magnesium stearate, methacrylic acid and ethyl acrylate copolymer polysorbate 80, sodium lauryl sulfate, sugar spheres (composed of corn starch and sucrose), talc, and triethyl citrate. The capsule shells have the following inactive ingredients: FD&C Blue 1, FD&C Red 3, ferrosoferric oxide, gelatin, potassium		Human gastric biopsy specimens have b with omeprazole in long-term clinical tri however, no case of ECL cell carcinoid <i>Toxicology (13.1)]</i> In over 1,000 patients treated with oral e of ECL cell hyperplasia increased with tin the gastric mucosa. Endocrine Effects Esomeprazole had no effect on thyroid fu 20 mg or 40 mg once daily for 4 weeks. I of omeprazole. Oral doses of omeprazol metabolism, circulating levels of paratt secretin. <b>12.3 Pharmacokinetics</b> Absorption Esomeprazole magnesium delayed-re administration in 94 healthy male and fn levels (C <sub>max</sub> ) of esomeprazole occur at a increased, and there is a three-fold incre mg. At repeated once-daily dosing with 4 a single dose of 40 mg. The mean expos	als. The incidence of ECL cell hyperplasis Is, dysplasia, or neoplasia has been for esomeprazole (10 mg, 20 mg or 40 mg/di me and dose. No patient developed ECL cr inction in adults when given esomeprazole Other effects of esomeprazole on the endit e 30 mg or 40 mg once daily for 2 to 4 hyroid hormone, cortisol, estradiol, testor lease capsules showed similar bioavait emale subjects under fasting conditions. proximately 1.5 hours (Tma). The Commito tases in the area under the plasma concer 10 mg, the systemic bioavailability is appure ure (AUC) to esomeprazole increases from	a in these studies increased with time; und in these patients <i>[see Nonclinical</i> ay) for up to 12 months, the prevalence ell carcinoids, dysplasia, or neoplasia in e magnesium delayed-release capsules ocrine system were assessed in studies weeks had no effect on carbohydrate isterone, prolactin, cholecystokinin, or aliability after a single dose (40 mg) After oral administration, peak plasma reases proportionally when the dose is itration-time curve (AUC) from 20 to 40 roximately 90% compared to 64% after	Follular Follular Follular Follular Follular Follular fol
Active ingredient: esomeprazole magnesium trihydrate USP Inactive ingredients in esomeprazole magnesium delayed-release capsules (including the capsule shells): glyceryl monostearate, hypromellose, magnesium oxide, magnesium stearate, methacrylic acid and ethyl acrylate copolymer polysorbate 80, sodium lauryl sulfate, sugar spheres (composed of corn starch and sucrose), talc, and triethyl citrate. The capsule shells have the following inactive ingredients: FD&C Blue 1, FD&C Red 3, ferrosoferric oxide, gelatin, potassium hydroxide, shellac, sodium lauryl sulfate and titanium dioxide.		Human gastric biopsy specimens have b with omeprazole in long-term clinical tri however, no case of ECL cell carcinoid <i>Toxicology (13.1)]</i> In over 1,000 patients treated with oral e of ECL cell hyperplasia increased with tin the gastric mucosa. Endocrine Effects Esomeprazole had no effect on thyroid fu 20 mg or 40 mg once daily for 4 weeks. of omeprazole. Oral doses of omeprazol metabolism, circulating levels of paratt secretin. <b>12.3 Pharmacokinetics</b> Absorption Esomeprazole magnesium delayed-re administration in 94 healthy male and fi levels (C <sub>max</sub> ) of esomeprazole occur at ag increased, and there is a three-fold incre	als. The incidence of ECL cell hyperplasis Is, dysplasia, or neoplasia has been for isomeprazole (10 mg, 20 mg or 40 mg/d ne and dose. No patient developed ECL co inction in adults when given esomeprazole Other effects of esomeprazole on the end e 30 mg or 40 mg once daily for 2 to 4 hyroid hormone, cortisol, estradiol, testo lease capsules showed similar bioava emale subjects under fasting conditions. oproximately 1.5 hours (T <sub>max</sub> ). The C <sub>max</sub> inc ase in the area under the plasma concer 10 mg, the systemic bioavailability is appi ure (AUC) to esomeprazole increases fror e daily dosing. gle 40 mg dose of esomeprazole mag take compared to fasting conditions [see ut patients with symptomatic GERD follow	a in these studies increased with time; and in these patients <i>[see Nonclinical</i> ay) for up to 12 months, the prevalence ell carcinoids, dysplasia, or neoplasia in e magnesium delayed-release capsules ocrine system were assessed in studies weeks had no effect on carbohydrate sterone, prolactin, cholecystokinin, or titability after a single dose (40 mg) After oral administration, peak plasma reases proportionally when the dose is itration-time curve (AUC) from 20 to 40 roximately 90% compared to 64% after m 4.32 micromol*hr/L on Day 1 to 11.2 unesium delayed-release capsules is e Dosage and Administration (2.3)]. The wing repeated once daily administration	Folluar Folluar Folluar George Folluar George Folluar George Folluar George Folluar In a as t Clop In a a at t a for In a a a t at t a for In a a at t a for In a a a for In a a for In a a for In a a for In a a for In a a for In a a for In a a for In a for In a In a for In a for In a for In a for In a for In a a

Table 6: Geometric Mean (95% CI) Pharmacokinetic Parameters of Esomeprazole on Day 5 Following Once Daily Digoxin Dosing of Esomeprazole Magnesium Delayed-Release Capsules in Adult Patients with Symptomatic GERD Concomitant administration of omeprazole 20 mg once daily and digoxin in healthy subjects increased the bioavailability

al ulcer recurrence, and pathological hypersecretory Elimination Ministration (2.1), Clinical Pharmacology (12.3)]. Metabolism

0-222-1222 for current information on the management Combination Therapy with Amoxicillin and Clarithromycin



bowder. It contains 3 moles of water of solvation and is Pediatric Patients is a function of pH; it rapidly degrades in acidic media, (buffer), the half-life of the magnesium salt is about 19

adult patients with symptomatic GERD in two separate sium delayed-release capsules 40 mg and 20 mg were Male and Female Patients

s 40 mg vs. esomeprazole magnesium delayed-release Drug Interaction Studies

) patients for up to 12 months. The mean fasting gastri astrin concentrations reached a plateau within two to weeks after discontinuation of therapy. Following mul-Jiagnostic investigations for neuroendocrine tumors [see Nelfinavir:

re than 3.000 patients (both pediatrics and adults) treated Atazanavi

capsules over a period of five days are shown in Table 6: <u>Diazepam</u>

Esomeprazole Magnesium Delayed-Release Capsules 40 mg once daily (n=36) 20 mg once daily (n=36) Other Drugs Concomitant administration of esomeprazole and either naproxen (non-selective NSAID) did not identify any clinically AUC (micromol·h/ (micromol/ St. John's Wort alues represent the geometric mean, except the T<sub>max</sub>, which is the arithmetic mean; CV=Coefficient of variation

systemic exposure increases in a more than dose proportional manner after multiple oral doses of esomeprazole. Voriconazole systemic exposure increases in a more train ouse proportional name and immuno or a toole or control to the first dose, the systemic exposure (C<sub>max</sub> and AUC<sub>0.24b</sub>) at steady state following once a day dosing increased by 43% and 90%, respectively, compared to after the first dose for the 20 mg dose and increased by 95% and increased by 43% and 90%, respectively, compared to after the first dose for the 20 mg dose and increased by 95% and increased by 12 hours for one cose daily for the steady-state following once a day dosing increased by 43% and 90%, respectively, compared to after the first dose for the 20 mg dose and increased by 95% and increased by 43% and 90%, respectively, compared to after the first dose for the 20 mg dose and increased by 95% and increased by 43% and 90%, respectively, compared to after the first dose for the 20 mg dose and increased by 95% and increased by 43% and 90%, respectively, compared to after the first dose for the 20 mg dose and increased by 95% and increased by 43% and 90%, respectively, compared to after the first dose for the 20 mg dose and increased by 95% and increased by 43% and 90%. 159%, respectively, for the 40 mg dose.

ss C) exposure to esomeprazole substantially increased someprazole magnesium delayed-release capsules is to the baling of EE risk reduction of NSAID-associated 20 micromol/L. The apparent volume of distribution at steady state in healthy subjects is approximately 16 L.

 IClasses A and B), no dosage adjustment is necessary.
 metadoutsuit

 ic mixture, at doses up to 2,400 mg (120 times the usual vision, tachycardia, nausea, diaphoresis. flushio forms the subphone metabolite.
 metadoutsuit

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 metadoutsuit

 ic mixture, at doses up to 2,400 mg (120 times the usual vision, tachycardia, nausea, diaphoresis. flushio forms the subphone metabolite.
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remainder is found as inactive metabolites in the feces.

red-Release Capsules, USP for oral administration is i)methyl[sulfinyl]-1/*H*-benzimidazole-1-yl) magnesium which is a mixture of the S- and R- isomesr. (Initial V ula is (C<sub>1</sub>,H<sub>1</sub>,N<sub>2</sub>O<sub>2</sub>S)<sub>2</sub>Mg × 3 H<sub>2</sub>O with molecular weight of

The pharmacokinetic parameters for amoxicillin and clarithromycin were similar during combination therapy and administration of each drug alone. However, the mean AUC and  $C_{\rm max}$  for 14-hydroxyclarithromycin increased by 19% and 22%, respectively, during combination therapy compared to treatment with clarithromycin alone. This increase in exposure to 14-hydroxyclarithromycin is not considered to be clinically relevant.

Specific Populations Geriatric Patients The AUC and C\_\_\_ values of esomeprazole were slightly higher (25% and 18%, respectively) in the elderly as compared to

as magnesium biological control as a control

younger subjects at steady state. This increase in exposure is not considered clinically relevant.

	Esomeprazole Magnesium Delayed-Release Capsules						
Parameter	12 Years to 1	7 Years (N=28)	Adults (N=36)				
Turumeter	20 mg once daily for 8 days	40 mg once daily for 8 days	20 mg once daily for 5 days	40 mg once daily for 5 days			
JC (micromol·h/L)	3.65	13.86	4.2	12.6			
C <sub>max</sub> (micromol/L)	1.45	5.13	2.1	4.7			
t <sub>max</sub> (h)	2.00	1.75	1.6	1.6			
t <sub>‰Az</sub> (h)	0.82	1.22	1.2	1.5			

ata presented are geometric means for AUC,  $C_{_{max}}$  and  $t_{_{\!/\!5\!\lambda\!z^3}}$  and median value for  $t_{_{max}}$ 

Patients with Henai impairment The pharmacokinetics of esomeprazole magnesium delayed-release capsules in patients with renal impairment are not expected to be altered relative to healthy subjects as less than 1% of esomeprazole is excreted unchanged in urine. the rest of the population (EMs) is approximately 1.5. This change in exposure is not considered clinically meaningful.

Patients with Hepatic Impairment

Effect of Esomeprazole/Omeprazole on Other Drugs

prazole magnesium delayed-release capsules 40 mg In vitro and in vivo studies have shown that esomeprazole is not likely to inhibit CYPs 1A2, 2A6, 2C9, 2D6, 2E1 and 3A4. Antiretrovirals

s evaluated in approximately 2,700 patients in clinical reported when given together with omeprazole [see Drug Interactions (7)].

Following multiple doses of nelfinavir (1,250 mg, twice daily) and omeprazole (40 mg daily), AUC was decreased by 36% and 92%,  $C_{mx}$  by 37% and 89% and  $C_{min}$  by 39% and 75% respectively for nelfinavir and M8.

Atzanavir: Following multiple doeses of atzanavir (400 mg, daily) and omeprazole (40 mg, daily, 2 hours before atzanavir), AUC was before atzanavir), AUC was before atzanavir (400 mg, daily, 2 hours before atzanavir), AUC was decreased by 94%, C<sub>max</sub> by 96%, and C<sub>mix</sub> by 95%.

20 mg or 40 mg/day) for up to 12 months, the prevalence nt developed ECL cell carcinoids, dysplasia, or neoplasia in following multiple dosing of saquinavir/ritonavir (1,000/100 mg) twice daily for 15 days with omeprazole 40 mg daily co-administered days 11 to 15. The AUC was increased by 82%, C<sub>max</sub> by 75%, and C<sub>mm</sub> by 106%. The mechanism behind this

given esomeprazole magnesium delayed-release capsules nrazole on the endocrine system were assessed in studies In a crossover study, healthy subjects were administered clopidogrel (300 mg loading dose followed by 75 mg per day Juvenile Animal Study

Co-administration of ecomentazole 30 mg and diazenam a CYP2C19 substrate resulted in a 45% decrease in clearance of diazepan. Increased plasma levels of diazepan were observed 12 hours after dosing and onwards. However, at that time, the plasma levels of diazepan were below the therapeutic interval, and thus this interaction is unlikely to be of clinical relevance.

of digoxin by 10% (30% in two subjects) [see Drug Interactions

elevant changes in the pharmacokinetic profiles of these NS

Effect of Other Drugs on Esomeprazole/Omeprazole

In a cross-over study in 12 healthy male subjects, St. John's Wort (300 mg three times daily for 14 days) significantl decreased the systemic exposure of omeprazole in CYP2C19 poor metabolizers (C<sub>max</sub> and AUC both decreased by 38%) gnesium delayed-release capsules in clinical trials, 1,459 Esomeprazole is a time-dependent inhibitor of CYP2C19, resulting in autoinhibition and nonlinear pharmacokinetics. The and extensive metabolizers (C<sub>max</sub> and AUC decreased by 50% and 44%, respectively) [see Drug Interactions (7)].

> mg once daily for 6 days) was given with omeprazole (40 mg once daily for 7 days) to healthy subjects, the steady-stat mg into daily into daily into daily into grant with one provide the mg into daily into daily into the solution into a state of an mg and AUC<sub>5-24</sub> of omeprazole significantly increased: an average of 2 times (90% Cl: 3.2 dimes (90% Cl: 3.2 Other Drugs

Co-administration of esomeprazole with oral contraceptives, diazepam, phenytoin, quinidine, naproxen (non-selective NSAID) did not seem to change the pharmacokinetic profile of esomeprazole.

blurred vision, tachycardia, nausea, diaphoresis, flushing, to those seen at recommended dosages. See the full formation. No specific antidote for esomeprazole is kapproximately 1 to 1.5 hours. Less than 1% of parent drug is excreted to the removed by dialysis. In the event of overdosage, ted to be removed by dialysis. In the event of overdosage at baseline in all treatment groups combined. A total of >99% (394/395) of patients had H. pylori isolates that were considered to be susceptible (MIC<0.25 mcg/mL) to amoxicillin at baseline. One patient had a baseline H. pylori isolate

Clarithromycin Pretreat	ment Results	H. pylori negative (Eradicated)	H. pylori positive (Not Eradicated) Post-treatment susceptibility results			
			<b>S</b> <sup>2</sup>	<b>I</b> <sup>2</sup>	R <sup>2</sup>	No MIC
Susceptible <sup>2</sup>	182	162	4	0	2	14
Intermediate <sup>2</sup>	1	1	0	0	0	0

 
 Resistant<sup>2</sup>
 29
 13
 1
 0
 13
 Includes only patients with pretreatment and post-treatment clarithromycin susceptibility test result

<sup>2</sup> Susceptible (S) MIC≤0.25 mcg/mL, Intermediate (I) MIC=0.5 mcg/mL, Resistant (R) MIC≥1.0 mcg/mL Patients not eradicated of H. pylori following triple therapy with esomeprazole magnesium delayed-release capsules.

3.8 (buffer), the half-life of the magnesium salt is about 19
 3.8 (buffer), the half-life of the magnesium salt is about 19
 3.8 (buffer), the half-life of the magnesium salt is about 19
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 3.8 (buffer), the half-life of the magnesium salt is about 19
 3.8 (buffer), the half-life of the magnesium salt is about 19
 3.8 (buffer), the half-life of the magnesium salt is about 19
 3.9 (and carithromycin resistant H. pylori should be done, when possible. Patients with clarithromycin resistant H. pylori should not be reached the start of sustained resolution.
 3.0 (arithromycin-containing regimen.
 3.0 (arithromycin-containing regimen.

sium trihydrate) in the form of enteric-coated granulas hypromellose, magnesium delayed-release capsules, amoxicillin and clarithromycin in clinical is have the following inactive ingredients: FD&C Blue 1s have the following inactive ingredients: FD&C Blue 1s lave for matcing and inter the following inactive ingredients: FD&C Blue 1s lave for matcing and inter the following inactive ingredients: FD&C Blue 1s lave for matcing and inter the following inactive ingredients: FD&C Blue 1s lave for matcing and inter the following inactive ingredients: FD&C Blue 1s lave for matcing and inter the following inactive ingredients: FD&C Blue 1s lave for matcing and inter the following inactive ingredients: FD&C Blue 1s lave for matcing and inter the following inactive ingredients: FD&C Blue 1s lave for matcing and inter the following inactive ingredients: FD&C Blue 1s lave for matcing and inter the following and inter the following and inter the following inactive ingredients: FD&C Blue 1s lave for matcing and inter the following and inter the fol istance to amoxicillin

section in prescribing information for clarithromycin and amoxicillin

nhibitors, increases gastric counts of bacteria normally present in the gastrointestinal tract. Treatment with PPIs may lead esomeprazole magnesium delaved-release capsules 20 mg. Esomeprazole magnesium delaved-release capsules 40 mg immunos, no cased risk of astrointestinal infections such as Samoella and Campuloacter and possibly Clostridium concertaint cased ca difficile in hospitalized patients 12.5 Pharmacogenomics

CYP2C19, a polymorphic enzyme, is involved in the metabolism of esomeprazole. The CYP2C19\*1 allele is fully functional

while the CP2C19<sup>12</sup> and <sup>13</sup> alleles are nonfunctional. There are other alleles associated with no or reduced enzymatic function. Patients carrying two fully functional alleles are extensive metabolizers and those carrying two loss-of-function alleles are poor metabolizers. The systemic exposure to esomeprazole varies with a patient's metabolism status: poor another intermetabolizers. The systemic exposure to esomeprazole varies with a patient's metabolism status: poor another intermetabolizers. The systemic exposure to esomeprazole varies with a patient's metabolism status: poor another intermetabolizers. The systemic exposure to esomeprazole varies with a patient's metabolism status: poor another intermetabolizers. The systemic exposure to esomeprazole varies with a patient's metabolism status: poor another intermetabolizers. The systemic exposure to esomeprazole varies with a patient's metabolism status: poor another intermetabolizers. The systemic exposure to esomeprazole varies with a patient's metabolism status: poor another intermetabolizers. The systemic exposure to esomeprazole varies with a patient's metabolism status: poor another intermetabolizers. The systemic exposure to esomeprazole varies with a patient's metabolism status: poor another intermetabolizers. The systemic exposure to esomeprazole varies with a patient's metabolism status: poor another intermetabolizers. The systemic exposure to esomeprazole varies with a patient's metabolism status: poor another intermetabolizers. The systemic estabolizers and the systemic estabolizers and the systemic estabolizers. The systemic estabolizers and the systemic estabolizers and the systemic estabolizers. The systemic estabolizers and the systemic estabolizers and the systemic estabolizers. The systemic estabolizers and the systemic estabolizers and the systemic estabolizers and the systemic estabolizers. The systemic estabolizers and the systemic estabolizers estabolizers and the systemic estabolizers estabolizers estabolizers estabolizers estabolizer metabolizers > intermediate metabolizers > extensive metabolizers. Approximately 3% of Caucasians and 15 to 20% of Asians are CYP2C19 poor metabolizers.

5 (N=36) Following Once Daily Dosing of Esomepratole exposures were modestly higher (approximately 17%) in CYP2C19 intermediate metabolizers (Mi; n=6) compared to exposures were modestly higher (approximately 17%) in CYP2C19 intermediate metabolizers (Mi; n=6) compared to exposures were modestly higher (approximately 17%) in CYP2C19. Similar pharmacokinetic differences were noted across these genotypes in a study of Chinese healthy subjects that included 7 EMs and 11 IMs. There is very limited to the management area of the management and the metabolizers (Mi; n=6) compared to exposure sources were modestly higher (approximately 17%) in CYP2C19. Similar pharmacokinetic differences were noted across these genotypes in a study of Chinese healthy subjects that included 7 EMs and 11 IMs. There is very limited to the studies.

Patients with Repatic Impairment
The steady state pharmacokinetics of esomeprazole obtained after administration of esomeprazole magnesium delayed-release capsules 40 mg orally once daily to patients with mild (Child-Pugh Class A, n=4), moderate (Child-Pugh Class B, n=4), moderate (Child-Pugh Class B, n=4), moderate (Child-Pugh Class C, n=4) hepatic impairment were compared to those obtained in 36 male and female GERD patients with normal liver function. In patients with normal liver function. In patients with normal liver function. In patients with normal liver function (see Use in Specific Populations (8.6)).
Drue lateration Strift Control (See Use in Specific Populations (8.6)).
Drue lateration Strift Control (See Use in Specific Populations (8.6)).
Drue lateration Strift Control (See Use in Specific Populations (8.6)).
Drue lateration Strift Control (See Use in Specific Populations (8.6)).
Drue lateration Strift Control (See Use in Specific Populations (8.6)). rats; the incidence of this effect was markedly higher in female rats, which had higher blood levels of omeprazole. Gastric carcinoids seldom occur in the untreated rat. In addition, ECL cell hyperplasia was present in all treated groups Effect of Esomeprazole/Omeprazole on Other Drugs In vitro and in vivo studies have shown that esomeprazole is not likely to inhibit CYPs 1A2, 2A6, 2C9, 2D6, 2E1 and 3A4. <u>Antiretrovirals</u> For some antiretroviral drugs, such as rilpivirine, atazanavir and nelfinavir, decreased serum concentrations have been reported when given together with omeprazole *(see Drug Interactions (7))*. was seen in one rat (2%). No similar tumor was seen in male or female rats treated for 2 years. For this strain of rat no similar tumor has been noted historically, but a finding involving only one tumor is difficult to interpret. A 78-week mous using and increased serum Chromogranin A (CgA) levels. Esomeprazole was negative in the Ames mutation test, in the in vivo rat bone marrow cell chromosome aberration test, and the in vivo mouse micronucleus test. Esomeprazole, however, was positive in the in vitro human lymphocyte

chromosome aberration test. Omeprazole was positive in the *in vivo* mouse income aberration test, the *in vivo* mouse bone marrow cell chromosome aberration test, and the *in vivo* mouse micronucleus test. The potential effects of esomeprazole on fertility and reproductive performance were assessed using omeprazole studies.

## 13.2 Animal Toxicology and/or Pharmacology

Reproduction Studies Reproduction studies have been performed in rats at oral doses up to 280 mg/kg/day (about 68 times an oral human dose of 40 mg on a body surface area basis) and in rabbits at oral doses up to 86 mg/kg/day (about 42 times an oral s=scheduled visit human dose of 40 mg on a body surface area basis) and have revealed no evidence of impaired fertility or harm to the Patients remained in remission significantly longer and the number of recurrences of EE was significantly less in patients fetus due to esomeprazole [see Use in Specific Populations (8.1)]. treated with esomeprazole magnesium delayed-release capsules compared to placebo

In a cossover study, healthy subjects were administered clopidogrel (300 mg loading dose followed by 75 mg per day ce daily for 2 to 4 weeks had no effect on carbohydrate sol, estradiol, testosterone, prolactin, cholecystokini, or period when clopidogrel and someprazole were administered together. Pharmacodynamic dese day sol, estradiol, testosterone, prolactin, cholecystokini, or period when clopidogrel and someprazole were administered together. Pharmacodynamic dese day sol, estradiol, testosterone, prolactin, cholecystokini, or period when clopidogrel and someprazole were administered together. Pharmacodynamic dese followed by 35% to 40% over this measured and demonstrated that the change in inhibition of platelet aggregation was related to the change in multicenter, open-label dose-escalation study of 21 multicenter, open-label dose-escalation study of 20 mg/kg/day (about 34 times a daily oral human dose of 40 mg on a body weight gain, decreases in femur weight and femur length marking day (about 34 times a daily oral human dose of 40 mg on a body weight gain, decreases in femur weight and femur length marking day (about 34 times a daily oral human dose of 40 mg on a body weight gain, decreases in femur weight and femur length marking day (about 34 times a daily oral human dose of 40 mg on a body weight gain, decreases in femur weight and femur length marking day (about 34 times a tabl) or 10 multicenter, open-label dose-escalation study or 11 mu wed similar bioavailability after a single dos (40 mg fasting conditions. After oral administration, peak plasma (T<sub>mm</sub>). The C<sub>mm</sub> increases proportionally when the dose is the plasma concentration-time curve (AUC) from 20 to 40 availability is approximately 90% commercated to 44% after (*T*<sub>mm</sub>). The C<sub>mm</sub> increases proportionally when the dose is the plasma concentration-time curve (AUC) from 20 to 40 availability is approximately 90% commercated to 44% after (*T*<sub>mm</sub>). The C<sub>mm</sub> increases proportionally when the dose is the plasma concentration-time curve (AUC) from 20 to 40 availability is approximately 90% commercated to 44% after (*T*<sub>mm</sub>). The C<sub>mm</sub> increases proportionally when the dose is the plasma concentration-time curve (AUC) from 20 to 40 availability is approximately 90% commercated to 64% after (*T*<sub>mm</sub>). The C<sub>mm</sub> increases proportionally when the dose is the plasma concentration-time curve (AUC) from 20 to 40 availability is approximately 90% commercated to 64% after (*T*<sub>mm</sub>). The C<sub>mm</sub> increases proportionally when the dose is the plasma concentration-time curve (AUC) from 20 to 40 availability is approximately 90% commercated to 64% after (*T*<sub>mm</sub>). The C<sub>mm</sub> increases proportionally when the dose is the plasma concentration-time curve (AUC) from 20 to 40 availability is approximately 90% commercate to 64% after (*T*<sub>mm</sub>). The C<sub>mm</sub> increases proportionally when the dose is the plasma concentration-time curve (AUC) from 20 to 40 availability is approximately 90% commercate to 64% after (*T*<sub>mm</sub>). The C<sub>mm</sub> increases the dose of the plasma concentration time at the dose of the plasma concentration time at the last dose of the plasma concentration time at the dose of the plasma concentration time curve (AUC) from 20 to 40 availability is approximately 90% commerciance to 64% after

Table 9: EE Healing Rate (Life-Table Analysis) in Adults with EE Treated with Esomeprazole Magnesium Delayed-Release Capsules or Omeprazole Delayed-Release Capsules Once Daily in Four Clinical Studies

Study	No. of Patients	Treatment Crown	EE Heali	ng Rates	Significance Level <sup>1</sup>
Study	NO. OF Patients	Treatment Group	Week 4	Week 8	- Significance Level
1	588	Esomeprazole Magnesium Delayed- Release Capsules 20 mg	68.7%	90.6%	N.S.
	588	Omeprazole 20 mg	69.5%	88.3%	
2	654	Esomeprazole Magnesium Delayed- Release Capsules 40 mg	75.9%	94.1%	p<0.001
	656	Esomeprazole Magnesium Delayed- Release Capsules 20 mg	70.5%	89.9%	p<0.05
	650	Omeprazole 20 mg	64.7%	86.9%	
3	576	Esomeprazole Magnesium Delayed- Release Capsules 40 mg	71.5%	92.2%	N.S.
	572	Omeprazole 20 mg	68.6%	89.8%	
4	1,216	Esomeprazole Magnesium Delayed- Release Capsules 40 mg	81.7%	93.7%	p<0.001
	1,209	Omeprazole 20 mg	68.7%	84.2%	

Helicobacter pylori: Susceptibility testing of H. pylori isolates was performed for amoxicillin and clarithromycin using agar dilution methodology and minimum inhibitor concentrations. Much use of the pylori isolates are consulted on the pylori isolates are pylori i Release Capsules or Omeprazole Delayed-Release Capsules Once Daily

Study	No. of Patients	Treatment Group		Percent <sup>2</sup> with Resolution	Significance Level <sup>3</sup>	
-		-	Day 14	Day 28	7 -	
1	573	Esomeprazole Magnesium Delayed- Release Capsules 20 mg	64.3%	72.7%	N.S.	
	555	Omeprazole 20 mg	64.1%	70.9%		
2	621	Esomeprazole Magnesium Delayed- Release Capsules 40 mg	64.8%	74.2%	p<0.001	
	620	Esomeprazole Magnesium Delayed- Release Capsules 20 mg	62.9%	70.1%	N.S.	
	626	Omeprazole 20 mg	56.5%	66.6%		
3	568	Esomeprazole Magnesium Delayed- Release Capsules 40 mg	65.4%	73.9%	N.S.	
	551	Omeprazole 20 mg	65.5%	73.1%		
4	1,187	Esomeprazole Magnesium Delayed- Release Capsules 40 mg	67.6%	75.1%	p<0.001	
	1,188	Omeprazole 20 mg	62.5%	70.8%		

 4
 1.187
 Release Capsules 40 mg
 67.6%
 75.1%
 p<0.001</th>

 1
 1.188
 0meprazole 20 mg
 62.5%
 70.8%
 1
 Two multicenter, double-blind, placebo-controlled studies were conducted in adult patients at risk of developing and/or duodenal ulcers associated with continuous use of non-selective and C0X-2 selective NSAIDs. A total of 1,429
 patients were randomized across the 2 studies. Patients ranged in age from 19 to 89 (median age 66 years) with 71%
 Patients were randomized across the 2 studies. Patients ranged in age from 19 to 89 (median age 66 years) with 71%
 Patients were randomized across the 2 studies. Patients ranged in age from 19 to 89 (median age 66 years) with 71%
 Patients were randomized across the 2 studies. Patients in these studies for someprazole 20 mg.
 N.S.= not significant (Vitamin B-12) Deficiency

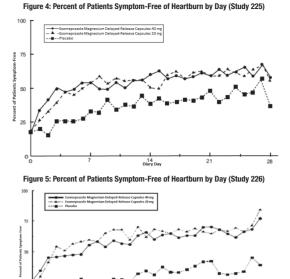
 1
 no heartburn was 5 days for esomeprazole magnesium delayed-release capsules 20 mg of 10 g og sof resomeprazole magnesium delayed-release capsules 20 mg of 20 mg.
 N.S.= not comparisons of 40 mg of esomeprazole magnesium delayed-release capsules 20 mg of 20 mg.
 N.S.= not comparisons of 40 mg of esomeprazole magnesium delayed-release capsules 40 mg over esomeprazole magnesium delayed-release capsules 20 mg.
 N.S.= not comparisons of 40 mg of esomeprazole magnesium delayed-release capsules 20 mg.
 N.S.= not comparisons of 40 mg of esomeprazole magnesium delayed-release capsules 20 mg.
 N.S.= not comparisons of 40 mg of esomeprazole magnesium delayed-release capsules 20 mg.
 N.S.= not comparison delayed-release capsules 40 mg over esomeprazole magnesium delayed-release capsules 40 mg over e magnesium delayed-release capsules 20 mg. Esomeprazole magnesium delayed-release capsules 40 mg orec daily are not a recommended regimen for the risk reduction of NSAID-associated gastric ulcer in adults. These studies did not demonstrate significant reduction in the development of NSAID-associated duodenal ulcer due to the low incidence. hypocalcemia, and/or hypokalemia to the patient's healthcare provider, if they have been receiving esomeprazole Table 11: Cumulative Percentage of Patients at Least 60 Years of Age Taking NSAIDS Without Gastric Ulcers at 26 magnesium delayed-release capsules for at least 3 months [see Warnings and Precautions (5.9]].
Weeks in Two Randomized Placebo-Controlled Studies Drug Interactions

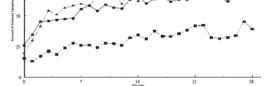
Two multicenter, randomized, double-blind placebo-controlled 4-arm studies were conducted in adult patients with Susceptibility Test for Helicobacter pylori: For susceptibility testing information about Helicobacter pylori, see Microbiology endoscopically confirmed, healed EE to evaluate esomeprazole magnesium delayed-release capsules 40 mg (n=174), 20 mg (n=180), 10 mg (n=168) or placebo (n=171) once daily over six months of treatment Effects on Gastrointestinal Microbial Ecology: Decreased gastric acidity due to any means, including proton pump No additional clinical benefit was seen with esomeprazole magnesium delayed-release capsules 40 mg over

The percentages of patients that maintained healing of EE at the various time points are shown in the Figures 2 and 3: igure 2: Maintenance of Healing Rates of EE in Adults by Month (Study 177) 100

The second se

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prazole 20 mg were evaluated. No significant treatment related differences were seen. Pediatric GERD

## Years to 17 Years of Age

a multicenter, randomized, double-blind, parallel-group study, 149 adolescent patients (12 to 17 years of age; 89 nale; 124 Caucasian, 15 Black, 10 Other) with clinically diagnosed GERD were treated with esomeprazole magnesium ayed-release capsules 20 mg or 40 mg once daily for up to 8 weeks to evaluate safety and tolerability. Patients were endoscopically characterized as to the presence or absence of EE.

Study	No. of Patients	Treatment Group	% of Patients Remaining Gastric Ulcer Free <sup>1</sup>
	191         Esomeprazole Magnesium Delayed-Release Capsules 20 mg           194         Esomeprazole Magnesium Delayed-Release Capsules 40 mg		95.4
1			96.7
	184	Placebo	88.2
	267	Esomeprazole Magnesium Delayed-Release Capsules 20 mg	94.7
2	271	Esomeprazole Magnesium Delayed-Release Capsules 40 mg	95.3
	257	Placebo	83.3

<sup>1.</sup> %=Life Table Estimate, Significant difference from placebo (p<0.01).

14.6 H. pylori Eradication in Adult Patients with Duodenal Ulcer Disease

Two multicenter, randomized, double-blind studies were conducted in adult patients using a 10-day treatment regimen of triple therapy (esomeprazole magnesium delayed-release capsules, amoxicillin and clarithromycin). The first study (191) compared ecomeprazio magnesium delayed-release capsules 40 mg once daily in combination with amoxicillin 1,000 mg twice daily and clarithromycin 500 mg twice daily to esomeprazole magnesium delayed-release capsules 40 mg once daily guis clarithromycin 500 mg twice daily. The second study (193) compared esomeprazole magnesium delayed-release to the second study (193) compared esomeprazole magnesium delayedrelease capsules 40 mg once daily in combination with amoxicillin 1,000 mg twice daily and clarithromycin 500 mg twice daily to esomeprazole magnesium delayed-release capsules 40 mg once daily. *H. pylori* eradication rates, defined as at least two negative tests and no positive tests from CLOtest<sup>®</sup>, histology and/or culture, at 4 weeks post-therapy were **Manufactured by:** in the esomeprazole magnesium delayed-release capsules and clarithromycin group or the esomeprazole magnesium delayed-release capsules and clarithromycin group or the esomeprazole magnesium delayed-release capsules and clarithromycin group or the esomeprazole magnesium Vichang Humanwell Oral Solid Dosage Plant Vichang Human Vichang Huma

Table 12: H. pylori Eradication Rates at 4 Weeks after 10 Day Treatment Regimen % of Adult Patients Cured [95% Distributed by: Somercet Therape

conducter interval (Number of Fatients)					
Study	Treatment Group	Per-Protocol <sup>1</sup>	Intent-to-Treat <sup>2</sup>		
191	Esomeprazole Magnesium Delayed-Release Capsules, amoxicillin and clarithromycin	84% <sup>3</sup> [78, 89] (n=196)	77% <sup>3</sup> [71, 82] (n=233)		
	Esomeprazole Magnesium Delayed-Release Capsules and clarithromycin	55% [48, 62] (n=187)	52% [45, 59] (n=215)		
193	Esomeprazole Magnesium Delayed-Release Capsules, amoxicillin and clarithromycin	85% <sup>4</sup> [74, 93] (n=67)	78% <sup>4</sup> [67, 87] (n=74)		
	Esomeprazole Magnesium Delayed-Release Capsules	5% [0, 23]	4% [0, 21]		

(n=22) (n=24) Patients were included in the analysis if they had H. pylori infection documented at baseline, had at least one endoscopically verified duodenal ulcer 20.5 cm in diameter at baseline or had a documented history of duodenal ulcer disease within the past 5 years, and were not protocol violators. Patients who dropped out of the study due to an adverse reaction related to the study drug were included in the analysis as not *H. pylori* aradicated. <sup>2</sup> Patients were included in the analysis if they had documented *H. pylori* infection at baseline, had at least one

documented duodenal ulcer at baseline, or had a documented history of duodenal ulcer disease, and took at least one dose of study medication. All dropouts were included as not H. pylori eradicated.

p<0.05 compared to esomeprazole magnesium delayed-release capsules plus clarithromycin. p<0.05 compared to esomeprazole magnesium delayed-release capsules plus clarithromycin.

The percentage of patients with a healed baseline duodenal ulcer by 4 weeks after the 10-day treatment regimen in the In both studies, the proportion of patients on esomeprazole magnesium delayed-release capsules who remained in esomeprazole magnesium delayed-release capsules, amoxicillin and clarithromycin group was 75% (n=156) and 57%

In a multicenter, open-label dose-escalation study of 21 adult patients (15 males and 6 females, 18 Caucasian and 3 Black, mean age of 56 years) with pathological hypersecretory conditions, such as Zollinger-Ellison Syndrome, esomeprazole magnesium delayed-release capsules significantly inhibited gastric acid secretion. The initial dosage of sours 1 1 min. The C min terms to min terms esomeprazole magnesium delayed-release capsules was 40 mg twice daily in 19 patients and 80 mg twice daily i

Table 13: Adequate Acid Suppression at Final Visit by Dosage Regimen in Adult Patients with Pathological Hypersecretory

Release Capsules BAO under adequate control at the Month 12 visit dose at the Month 12 visit

30 mg twice daily

80 mg three times dai )ne patient was not evaluated

## 16 HOW SUPPLIED/STORAGE AND HANDLING

someprazole Magnesium Delayed-Release Capsules, USP, 20 mg, are capsules with opaque standard blue cap and opaque powder blue body, imprinted with "  $\square$  109" on the cap and "20mg" on the body in black ink. They are supplied as follows:

NDC 70069-814-30 bottles of 30 capsules with child-resistant closure IDC 70069-814-90 bottles of 90 capsules with child-resistant closure

NDC 70069-814-10 bottles of 1,00 capsules with orange services and the statistic cost of the service of 1,00 capsules and the service service of 1,00 capsules and the service service of 1,00 capsules and the service of 1,00 capsules and 1,0 opaque powder blue body, imprinted with " 의 108" on the cap and "40mg" on the body in black ink. They are supplied

NDC 70069-815-30 bottles of 30 capsules with child-resistant closure

IDC 70069-815-90 bottles of 90 capsules with child-resistant closure NDC 70069-815-10 bottles of 1,000 capsules

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 Keep Esomeprazole Magnesium Delayed-Release Capsules, USP container tightly closed. Dispense in a tight, light-

resistant container as defined in the USP with a child-resistant closure.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide and Instructions for Use). Acute Tubulointerstitial Nephritis

Advise the patient or caregiver to call the patient's healthcare provider immediately if they experience signs and/or symptoms associated with suspected acute TIN [see Warnings and Precautions (5.2)].

Clostridium difficile-Associated Diarrhea three European symptomatic GERD trials, esomeprazole magnesium delayed-release capsules 20 mg and 40 mg and perzole 20 mg were evaluated. No significant treatment related differences were seen.

<u>Sone Fracture</u> Advise the patient or caregiver to report any fractures, especially of the hip, wrist or spine, to the patient's healthcare provider [see Warnings and Precautions (5.4)].

Severe Cutaneous Adverse Reactions

Advise the patient or caregiver to discontinue esomeprazole magnesium delayed-release capsules and immediately call the patient's healthcare provider for at first appearance of a severe cutaneous adverse reaction or other sign of hypersensitivity signs or symptoms associated with Severe Cutaneous Adverse Reactions *(see Warnings and Precautions of Cell)* 

Advise the patient or caregiver to report to their healthcare provider if starting treatment with rilpivirine-containing products, clopidogrel, St. John's Wort or rifampin; or, if they take high-dose methotrexate [see Contraindications (4), Warnings and Precautions (5.7, 5.10, 5.12)].

Administration Take esomeprazole magnesium delayed-release capsules at least one hour before meals.

Antacids may be used concomitantly with esomeprazole magnesium delayed-release capsules.

Swallow esomeprazole magnesium delayed-release capsules whole; do not chew or crush the capsules. For patients who have difficulty swallowing capsules, esomeprazole mane and a state of elease capsules can be opened, and the contents sprinkled on applesauce. Use with other foods is not recommended.

1. Add one tablespoon of applesauce to an empty bowl. The applesauce used should not be hot and should be soft nough to be swallowed without chewing. 2. Open the esomeprazole magnesium delayed-release capsule and carefully empty the granules inside the capsule

Mix the granules with the applesauce.

Administer the mixture immediately. Do not chew or crush the granules

5. Discard any remaining mixture. Do not store the mixture for future use. someprazole magnesium delayed-release capsules can also be administered via a nasogastric tube, as described in the Instructions for Use.

Drug Interactions

Somerset Therapeutics, LLC Hollywood, FL 33024 Customer Care # 1-800-417-9175

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