Singapore

Proton Pump Inhibitor

Pariet "10 mg / Pariet "20 mg

<Rabeprazole Sodium Preparation>

TRADE NAME OF THE MEDICINAL PRODUCT 10 mg Tablets

PARIET[®] 20 mg Tablets. 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

One tablet contains: 9.42 mg rabeprazole as 10 mg rabeprazole sodium 18.85 mg rabeprazole as 20 mg rabeprazole sodium 3. PHARMACEUTICAL FORM

- A Therapeutic Indications
 PARIE® tablets are indicated for the treatment of:
 Prevention of gastric and duodenal ulcer recurree
 Active duodenal ulcer nces associated with low-dose aspirin therapy
- Active benign gastric ulcer Symptomatic erosive or ulcerative gastro-esophageal reflux disease (GERD)
- Symptomatic treatment of moderate by aspect of the second second
- GERD) In combination with appropriate antibacterial therapeutic regimens for the eradication of *Helicobacter pylori* in patients with peptic ulcer disease. See section 4.2

4.2 Posology and Method of Administration

Adults/elderly: Prevention of gastric and duodenal ulcer recurrences associated with low-dose aspirin therapy: The usual dosage for adults is 5mg rabeprazole sodium administered orally once daily. The dosage may be increased to 10mg administered orally once a day in the event of insufficient effect. Active Duodenal Ulcer, Active Benign Gastric Ulcer and Erosive or Ulcerative Gastro-Esophageal Reflux Disease (GERD): The usual adult dose is 10mg rabeprazole sodium administered orally once daily. However, the dosage may be increased up to 20mg orally once a day depending on severity of symptoms. For the treatment of active benign gastric ulcer and symptomatic erosive or ulcerative GERD, the usual administration should be restricted to up to 8 weeks, and for active duodenal ulcer, 6 weeks. A dose of 10mg twice daily for a further 8 weeks may be administered orally to reflux esophagitis patients who do not respond to usual doses of proton pump inhibitor treatment. However, dose of 20mg buice daily may be administered to natients with severe murcea injury. Adults/elderly

A dose of 10mg twice daily for a further 8 weeks may be administered orally to relux esophagitis patients who do not respond to usual doses of proton pump inhibitor treatment. However, dose of 20mg twice daily may be administered to patients with severe mucosa injury. *Gastro-Esophageal Reflux Disease Long-term Management (GERD Maintenance)*: For long-term management, a maintenance dose of PARIET[®] 20 mg or 10 mg once daily can be used depending user patient response.

upon patient response. For the maintenance therapy of reflux esophagitis when proton pump inhibitor treatment is

For the maintenance therapy of reflux esophagitis when proton pump inhibitor treatment is ineffective, dose of 10 mg twice daily may be administered orally. *Symptomatic treatment of moderate to very severe gastro-esophageal reflux disease* (*symptomatic GERD*): 10mg once daily in patients without esophagitis. If symptom control has not been achieved during four weeks, the patient should be further investigated. Once symptoms have resolved, subsequent symptom control can be achieved using an on-demand regimen taking 10mg once daily when needed. *Eradication of H. pylori*: Patients with *H. pylori* infection should be treated with eradication therapy. The following combination given for 7 days is recommended. PARIET® 20mg twice daily + darithromycin 500mg twice daily and amoxicillin 1g twice daily. For indications requiring once daily treatment PARIET® tablets should be taken in the morning, before eating; and although neither the time of day nor food intake was shown to have any effect on rabeprazole sodium activity, this regimen will facilitate treatment compliance. Patients should be cautioned that the PARIET® tablets should not be chewed or crushed, but should be swallowed whole. Renal and hepatic impairment:

al and hepatic impa irment

No dosage adjustment is necessary for patients with renal or hepatic impairment. See section 4.4 Special Warnings and Precautions for Use of PARIET® in the treatment of patients ith severe hepatic impairment

Childrer

PARIET® is not recommended for use in children, as there is no experience of its use in this group. 4.3 Contraindications 4.3 <u>Contraindications</u> PARIET[®] is contra-indicated in patients with known hypersensitivity to rabeprazole sodium, substituted benzimidazoles or to any excipient used in the formulation. PARIET[®] is contra-indicated in pregnancy and during breast feeding.

4.4 Special Warnings and Precautions for Use

4.4 Special Warnings and Precautions for Use Symptomatic response to therapy with rabeprazole sodium does not preclude the presence of gastric or esophageal malignancy, therefore the possibility of malignancy should be excluded prior to commencing treatment with PARIET[®]. For prevention of gastric and duodenal ulcer recurrences associated with low-dose aspirin therapy, administer PARIET[®] in patients who are continuously receiving low-dose aspirin to prevent thrombosis or embolism formation, and confirm whether the patient has a history of gastric ulcer or duodenal ulcer before starting administration. Patients on long-term treatment (particularly those treated for more than a year) should be kept under require supreliance.

Patients on long-term treatment (particularly those treated for more than a year) should be kept under regular surveillance. Bone Fracture:Several published observational studies suggest that proton pump inhibitor (PPI) therapy may be associated with an increased risk for osteoporosis-related fractures of the hip, wrist, or spine. The risk of fracture was increased in patients who received high-dose, defined as multiple daily doses, and long-term PPI therapy (a year or longer). Patients should use the lowest dose and shortest duration of PPI therapy appropriate to the condition being treated. Patients at risk for osteoporosis-related fractures should be managed according to established treatment multiple dises.

guidelines. Hypomagnesemia, symptomatic and asymptomatic, has been reported rarely in patients treated with the proton pump inhibitors (PPIs) for at least three months, in most cases after a year of therapy. PARIET[®] is the member of PPIs. Serious adverse events include tetany, arrhythmias, and seizures. In most patients, treatment of hypomagnesemia required magnesium replacement and discontinuation of the PPI.

For patients expected to be on prolonged treatment or who take PPIs with medications such as For patients expected to be on prolonged treatment or who take PPIs with medications such as digoxin or drugs that may cause hypomagnesemia (e.g., diuretics), health care professionals may consider monitoring magnesium levels prior to initiation of PPI treatment and periodically. No evidence of significant drug related safety problems was seen in a study of patients with mild to moderate hepatic impairment versus normal age and sex matched controls. However because there are no clinical data on the use of PARIET® in the treatment of patients with severe hepatic dysfunction the prescriber is advised to exercise caution when treatment with PARIET® is first initiated in such patients.

Published observational studies suggest that proton pump inhibitor (PPI) therapy like PARIET® is published observational studies suggest that proton pump inhibitor (PPI) therapy like PARIET may be associated with an increased risk of Clostridium difficile associated diarrhea (CDAD), especially in hospitalized patients. This diagnosis should be considered for diarrhea that does not improve (see section 4.8). Patients should use the lowest dose and shortest duration of PDI the treated.

treated. CDAD has been reported with use of nearly all antibacterial agents. For more information specific to antibacterial agents (clarithromycin and amoxicillin) indicated for use in combination with PARIET, refer to WARNINGS and PRECAUTIONS sections of those package inserts.

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 section 4.5). Cutaneous lupus erythematosus (CLE) and systemic lupus erythematosus (SLE) have been reported in patients taking PPIs. These events have occurred as both new onset and an exacerbation of existing autoimmune disease. The majority of PPI-induced lupus erythematosus cases were CLE. The most common form of CLE reported in patients treated with PPIs was subacute CLE (SCLE) and occurred within wesks to years after continuous drug therapy in patients ranging from infants to the elderly. Generally, histological findings were observed without organ involvement. Systemic lupus erythematosus (SLE) is less commonly reported than CLE in patients receiving PPIs. PPI associated SLE is usually milder than non-drug induced SLE. Onset of SLE typically occurred within days to years after initiating treatment primarily in patients ranging from young adults to the elderly. The majority of

section of the sectio

SLE are noted in patients receiving PARIET[®], discontinue the drug and refer the patient to the appropriate specialist for evaluation. Most patients improve with discontinuation of the PPI alone in 4 to 12 weeks. Servlogical testing (e.g., Antinuclear antibody) may be positive and elevated serological test results may take longer to resolve than dinical manifestations.

longer to resolve than clinical manifestations. Long term PPI use, including rabeprazole, appears to be associated with an increased risk of fundic gland polyps. Most fundic gland polyps are asymptomatic. Patients with large or ulcerated polyps may be at risk of gastrointestinal bleeding or small intestinal blockage. Use the lowest dose and shortest duration of PPI therapy

gastrointestinal bleeding or small intestinal blockage. Use the lowest dose and shortest duration of PPI therapy appropriate to the condition being treated. **4.5 Interaction with other Medicaments and other forms of Interaction** Rabeprazole sodium, as is the case with other members of PPI class of compounds, is metabolized through the cytochrome P450 (CYP450) hepatic drug metabolizing system. Studies in healthy subjects have shown that rabeprazole sodium produces a profound and long lasting inhibition of gastric acid secretion. An interaction with compounds whose absorption is pH dependent may occur, therefore the potential for such interaction was investigated. Co-administration of rabeprazole sodium results in a 33% decrease in ketoconazole levels and a 22% increase in trough digoxin levels in normal subjects. Therefore individual patients may need to be monitored to determine if a dosage adjustment is necessary when such drugs are taken concomitantly with PARIET[®]. PARIET®

In clinical trials, antacids were used concomitantly with the administration of PARIET[®] and, in a specific study designed to define this interaction, no interaction with liquid antacids was observed. There was no clinically relevant interaction with food.

designed to define this interaction, no interaction with liquid antacids was observed. There was no clinically relevant interaction with food. In vitro studies with human liver microsomes indicated that rabeprazole sodium is metabolized by isoenzymes of CYP450 (CYP2C19 and CYP3A4). In these studies, at expected human plasma concentrations rabeprazole neither induces nor inhibits CYP3A4; and although *in vitro* studies may not always be predictive of *in vivo* status these findings indicate that no interaction is expected between rabeprazole and cyclosporin. Co-administration of atazanavir 300 mg/ritonavir 100 mg with omeprazole (40 mg once daily) or atazanavir 400 mg with lansoprazole (60 mg once daily) to healthy volunteers resulted in a substantial reduction in atazanavir exposure. The absorption of atazanavir is pH dependent. Although co-administration with rabeprazole was not studied, similar results are expected with other proton pump inhibitors. Therefore PPIs, including rabeprazole, should not be coadministered with atazanavir. Gastric acid antisecretory effect of PARIET may increase intragastric pH and reduce solubility of rilpivirine hydrochloride, resulting in a decrease in the blood concentration of rilpivirine hydrochloride. Case reports, published population pharmacokinetic studies, and retrospective analyses suggest that concomitant administration of PPIs and methotrexate (primarily at high dose; see methotrexate prescribing information) may elevate and prolong serum levels of methotrexate and/or its metabolite hydroxymethotrexate. However, no formal drug interaction studies of methotrexate with PPIs have been conducted (see section 4.4). **4.6 Pregnancy and Lacation**

4.6 Pregnancy and Lactation

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There are no data on the safety of rabeprazole in human pregnancy. Reproduction studies performed in rats and rabbits have revealed no evidence of impaired fertility or harm to the fetus due to rabeprazole sodium, although low feto-placental transfer occurs in rats. PARIET[®] is ontraindicated during pregnancy

in lactating women cretions. Therefore

t PARIET[®] would armacodynamic properties and the adverse events prome, it is unikely that PARTE I would bent of driving performance or compromise the ability to use machinery. If however, alerness a somnolence, it is recommended that driving and operating complex machinery be avoided.

System	Very					
Organ Class	Common	Common	Uncommon	Rare	Very Rare	Not Known
Infections and		Infection				
infestations						
Blood and				Neutropenia		
the lymphatic				Leucopenia		
system				Thrombocytopenia		
disorders				Leucocytosis		
Cardiovascular	Increase in	Palpitations				
disorders	blood					
	pressure					
Immune system				Hypersensitivity ^{1,2}		Systemic lupus
disorders						erythematosus4
Metabolism and				Anorexia		Hyponatremia
nutrition				Hypomagnesemia		Hypomagnesae-
disorders						mia ⁴
Psychiatric		Insomnia	Nervousness	Depression		Confusion
disorders						
Nervous system		Headache	Somnolence			
disorders		Dizziness				
Eye disorders				Visual		
				disturbance		
				Blurred vision		
Vascular						Peripheral
disorders						oedema
Respiratory,		Cough	Bronchitis			
thoracic and		Pharyngitis	Sinusitis			
mediastinal		Rhinitis				
dieordore	1			1	1	

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System	Very					
Organ Class	Common	Common	Uncommon	Rare	Very Rare	Not Known
Gastrointestinal	Stomatitis	Diarrhoea	Dyspepsia	Gastritis		
disorders		Vomiting	Dry mouth	Taste disturbance		
		Nausea	Eructation			
		Abdominal				
		pain				
		Constipation				
		Flatulence				
		Fundic gland				
		polyps				
		(benign)				
Hepato-biliary				Hepatitis		
disorders				Jaundice Hepatic		
				encephalopathy3		
Skin and			Rash	Pruritus Sweating	Erythema	Cutaneous lup
subcutaneous			Erythema ²	Bullous	multiforme,	erythematosus
tissue disorders				reactions ²	toxic	
					epidermal	
					necrolysis	
					(TEN), Stevens-	
					Johnson	
					syndrome	
					(SJS)	
Musculo-		Non-specific	Myalgia			
skeletal,		pain	Leg cramps			
connective		Back pain	Arthraigia			
tissue and bone			Fracture of the			
disorders			hip, wrist or			
			spine ⁴			
Renal and			Urinary tract	Interstitia		Acute kidney
urinary		1	infection	nephritis		injury
disorders		1				
Reproductive						Gynaecomastia
system and		1				
breast disorders						
General		Asthenia	Chest pain			
disorders and		Influenza like	Chills			
administration		ilness	Pyrexia			
site conditions		1				
Investigations			Increased	Weight increased		
		1	hepatic			
		1	enzymes ³			1

 Includes facial swelling, hypotension and dyspneea
 Erythema, bullous reactions and hypersensitivity reactions have usually resolved after discontinuation of therapy.
 Rare reports of hepatic encephalopathy have been received in patients with underlying cirrhosis. In treatment of patients
 with severe hepatic dysfunction the prescriber is advised to exercise caution when treatment with PARIET is first initiated in
 such patients (see section 4.4). 4 See Special Warnings and Precautions for Use (section 4.4) Pneumonia and TSH elevations have also been reported from worldwide marketing experience with

zole sodium.

 rabeprazole sodium.

 4.9 Overdose

 Experience to date with deliberate or accidental overdose is limited. The maximum established exposure has not exceeded 60mg twice daily, or 160mg once daily. Effects are generally minimal, representative of the known adverse event profile and reversible without further medical intervention. No specific antidote is known. Rabeprazole sodium is extensively protein bound and is, therefore, not readily dialysable. As in any case of overdose, treatment should be symptomatic and general supportive measures should be utilized.

 5. PHARMACOLOGICAL PROPERTIES

 5.1 Pharmacodynamic Properties

5. PHARMACOLOGICAL PROPERTIES 5.1 Pharmacodynamic Properties ATC code: A02B CO4 Mechanism of Action: Rabeprazole sodium belongs to the class of anti-secretory compounds, the substituted benzimidazoles, that do not exhibit anticholinergic or H₂ histamine antagonist properties, but suppress gastric acid secretion by the specific inhibition of the H⁺/K⁺-ATPase enzyme (the acid or proton pump) The effect is dose-related and leads to inhibition of both basal and stimulated acid secretion irrespective of the stimulus. Animal studies indicate that after administration, rabeprazole sodium rapidly disappears from both the plasma and gastric mucosa. As a weak base, rabeprazole is rapidly absorbed following all doses and is concentrated in the acid environment of the parietal cells. Rabeprazole converted to the active subplenamide form through protonation and it subsequently reacts with the available cysteines on the proton pump. Anti-secretory Activity: After oral administration of a 20 mg dose of rabeprazole sodium the onset of the anti-secretory effect occurs within one hour, with the maximum effect occurring within two to four hours.

available cysteines on the proton pump. Anti-secretory Activity: After oral administration of a 20 mg dose of rabeprazole sodium the onset of the anti-secretory effect occurs within one hour, with the maximum effect occurring within two to four hours. Inhibition of basal and food stimulated acid secretion 23 hours after the first dose of sodium rabeprazole are 69% and 82% respectively and the duration of inhibition lasts up to 48 hours. The inhibitory effect of sodium rabeprazole on acid secretion increases slightly with repeated once-daily dosing, achieving steady state inhibition after three days. When the drug is discontinued, secretory activity normalizes over 2 to 3 days. Decreased gastric acidity due to any means, including proton pump inhibitors such as rabeprazole, increases counts of bacteria normally present in the gastrointestinal tract. Treatment with proton pump inhibitors may possibly increase the risk of gastrointestinal infections such as Salmonella, Campylobacter and Cobstridium difficile. Intragastric pH Effects: Administration of PARIET[®] at 5, 10 and 20 mg once a day all resulted in a significantly increased intragastric pH in healthy adult men. The proportion of time that showed a pH of 4 or above in the period of 24 hours on day 5 of administration was 46% and 63% for EM and PM at 5 mg once a day, respectively, 58% and 72% for EM and PM at 10 mg once a day, respectively, and 61% and 76% for EM and PM at 20 mg once a day, respectively (see section 5.2). *Serum Gastrin Effects*: In dinical studies patients were treated once daily with 10 or 20 mg rabeprazole sodium, for up to 43 months duration. Serum gastrin levels increased during the first 2 to 8 weeks reflecting the inhibitory effects on acid secretion and remained stable while treatment was continued. Gastrin values returned to pre-treatment levels, usually within 1 to 2 weeks after discontinuation of H.erapy. Human gastric biopsy specimens from the antrum and the fundus from over 500 patients receiving rabeprazole

Other Effects: Systemic effects of rabeprazole sodium in the CNS, cardiovascular and respiratory systems Curier Errects: Systemic errects of rabeprazole sodium in the CNS, carolovascular and respiratory systems have not been found to date. Rabeprazole sodium, given in oral doses of 20 mg for 2 weeks, had no effect on thyroid function, carbohydrate metabolism, or circulating levels of parathyroid hormone, cortisol, estrogen, testosterone, protactin, cholecystokinin, secretin, glucagon, follicle stimulating hormone (FSH), luteinizing hormone (LH), renin, aldosterone or somatotrophic hormone. <u>Clinical Efficacy</u> Prevention of gastric and duodenal ulcer recurrences associated with low-dose aspirin therapy (Study 308)

rrevenuon or gastric and duodenal ulcer recurrences associated with low-dose aspirin therapy (Study 308). The table below shows cumulative rates of recurrence for gastric and duodenal ulcer at 24 weeks after administration estimated using the Kaplan-Meier method in a double-blind comparative study involving patients requiring long-term treatment with low-dose aspirin (at 81 mg or 100 mg/day) with a past history of gastric ulcer or duodenal ulcer.

	5 mg once a day	10 mg once a day	Control drug ^{C)}	
	(150 patients)	(151 patients)	(151 patients)	
Number of patients with	4	2	32	
recurrences	4	2	JZ	
Cumulative recurrence rate				
at 24 weeks after	2.8%	1.4%	21.7%	
administration ^a)	(1.04, 7.17)	(0.35, 5.51)	(15.84, 29.27)	
(95% confidence interval)				
Hazard ratio against	0.44	0.05		
control drug	0.11	0.05		
(95% confidence interval)	(0.04, 0.31)	(0.01, 0.23)	-	
P-value b)	P < 0.001	P < 0.001	-	
stimated using the Kaplan-Meier	method			
ased on the log-rank test	memou			
eprenone (50 mg 3 times a day)				



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not known whether rabeprazole sodium is excreted in human breast milk. No studies
e been performed. Rabeprazole sodium is however excreted in rat mammary se
RIET [®] should not be used during breast feeding.
Effects on ability to Drive and use Machines
sed on the pharmacodynamic properties and the adverse events profile, it is unlikely the

is impaired due to somnolence, it is recommended that driving and operating complex machinery be avoided. **4.8** <u>Undesirable Effects</u> The most commonly reported adverse drug reactions, during controlled clinical trials with rabeprazole were headache, diarrhoea, abdominal pain, asthenia, flatulence, rash and dry mouth. The majority of adverse events experienced during clinical studies were mild or moderate in severity, and transient in nature. The following adverse events have been reported from clinical trial and post-marketed experience. Frequencies are defined as: very common (\geq 1/10, common (\geq 1/100, <1/10), uncommon (\geq 1/1000, <1/100), rare (\geq 1/10,000, <1/1000) and very rare (<1/10,000).



5.2 <u>Pharmacokinetic Properties</u> Absorption: PARIET[®] is an enter

5.2 <u>Pharmacokinetic Properties</u> Absorption: PARIET® is an enteric-coated (gastro-resistant) tablet formulation of rabeprazole sodium. This presentation is necessary because rabeprazole is acid-labile. Absorption of rabeprazole therefore begins only after the tablet leaves the stomach. Absorption is rapid, with peak plasma levels of rabeprazole occurring approximately 3.5 hours after a 20 mg dose. Peak plasma concentrations (C_{max}) of rabeprazole and AUC are linear over the dose range of 10 mg to 40 mg. Absolute bioavailability of an oral 20 mg dose (compared to intravenous administration) is about 52% due in large part to pre-systemic metabolism. Additionally the bioavailability does not appear to increase with repeat administration. In healthy subjects the plasma half-life is approximately one hour (range 0.7 to 1.5 hours), and the total body clearance is estimated to be 283 ± 98 ml/min. Neither food nor the time of day of administration of the treatment affect the absorption of rabeprazole sodium.

The pharmacokinetic parameters of rabeprazole sodium (on day 5 of administration) administered repeatedly to healthy adult men in a fasting state at 5, 10 and 20 mg are shown below. Pharmacokinetic parameters of rabeprazole sodium in plasma when repeatedly administered (at 5 mg, 10 mg and 20 mg) to healthy adult men

Dose	Phenotype	C _{mxa} (ng/mL)	t _{max} (hr)	AUC (0-t) (ng.hr/mL)	t _½ (hr)
5mg	EM*	146 ± 56	3.0 (2.0-4,5)	236 ± 97	1.8 ± 0.9
	PM*	252 ± 55	2.5 (1.5-5.5)	585 ± 137	4.2 ± 0.5
10mg	EM*	383 ± 83	3.3 (2.0-5.0)	539 ± 200	1.5 ± 0.4
	PM*	509 ± 64	2.8 (2.0-4.5)	1230 ± 200	3.8 ± 0.3
20mg	EM*	654 ± 348	4.0 (2.5-8.0)	994 ± 477	2.3 ± 1.4
	PM*	822 ± 232	3.3 (3.0-6.0)	2331 ± 663	3.7 ± 0.3

item are shown as mean \pm standard deviation, except for tmax, which is shown as maximum value).

EM, n=16; PM, n=8

EM, n=16; PM, n=8 *The phenotype of cytochrome P450 2C19 (CYP2C19), a hepatic metabolizing enzyme, is classified based on genotype as below. EM (extensive metabolizer): CYP2C19*1/*1, CYP2C19*1/*2 or CYP2C19*1/*3

EM (extensive metabolizer): CYP2C19*1/*1, CYP2C19*1/*2 or CYP2C19*1/*3 PM (poor metabolizer): CYP2C19*2/*2 or CYP2C19*3/*3 Distribution: Rabeprazole is approximately 97% bound to human plasma proteins. Metabolism and excretion: In humans the thioether (M1) and carboxylic acid (M6) are the main plasma metabolites observed at lower levels. Only the desmethyl metabolite (M3) has a small amount of anti-secretory this is not accertific to the content of the activity, but it is not present in plasma. Following a single 20 mg ¹⁴C labeled oral dose of sodium rabeprazole, no unchanged drug was excreted in the urine. Approximately 90% of the dose was eliminated in urine mainly as the two metabolities: a mercapture acid conjugate (M5) and a carboxylic acid (M6), plus two unknown metabolities. The remainder of the dose

acid conjugate (M5) an was recovered in feces Gender: Adjusted for body mass and height, there are no significant gender differences in pharmacokinetic

Gender: Adjusted for body mass and height, there are no significant gender differences in pharmacokinetic parameters following a single 20 mg dose of rabeprazole. *Renal dysfunction:* In patients with stable, end-stage, renal failure requiring maintenance hemodialysis (creatinine clearance ≤5m/min/1.73m²), the disposition of rabeprazole was very similar to that in healthy volunteers. The AUC and the Cmax in these patients was about 35% lower than the corresponding parameters in healthy volunteers. The mean half-life of rabeprazole was 0.82 hours in healthy volunteers, 0.95 hours in patients during hemodialysis and 3.6 hours post dialysis. The clearance of the drug in patients with renal disease requiring maintenance hemodialysis was approximately twice that in healthy volunteers. *Hepatic dysfunction:* Following a single 20 mg dose of rabeprazole to patients with chronic mild to moderate hepatic impairment the AUC doubled and there was a 2-3 fold increase in half-life of rabeprazole to only 1.5-fold and the Cmax to only 1.2-fold. The half-life of rabeprazole in patients with hepatic impairment was 12.3 hours compared to 2.1 hours in healthy volunteers. The patients with volunteers. The patient by voluteers. The half-life of rabeprazole is patients with hepatic impairment was 12.3 hours compared to 2.1 hours in healthy volunteers. The pharmacodynamic response (gastric pH control) in the two groups was clinically comparable.

the two groups was clinically comparable.

in the two groups was clinically comparable. *Elderly*: Elimination of rabeprazole was somewhat decreased in the elderly. Following 7 days of daily dosing with 20mg of rabeprazole sodium, the AUC approximately doubled, the C_{max} increased by 60% and t% increased by approximately 30% as compared to young healthy volunteers. However there was no evidence

increased by approximately out as compared to years of rabeprazole accumulation. *CYP2C19 Polymorphism:* Following a 20mg daily dose of rabeprazole for 7 days, CYP2C19 slow metabolisers, had AUC and t% which were approximately 1.9 and 1.6 times the corresponding parameters in extensive metabolisers whilst Cmax had increased by only 40%.

extensive metabolisers whilst Cmax had increased by only 40.76. 5.3 Pre-clinical Safety Data Pre-clinical effects were observed only at exposures sufficiently in excess of the maximum human exposure that make concerns for human safety negligible in respect of animal data. Studies on mutagenicity gave equivocal results. Tests in mouse lymphoma cell line were positive, but *in vivo* micronucleus and *in vivo* and in vitro DNA repair tests were negative. Carcinogenicity studies revealed no

PHARMACEUTICAL PARTICULARS

6.1 List of Excipients D-Mannitol, hydroxypropylcellulose, low-substituted hydroxypropyl-cellulose, carmellose calcium (10 magnesium stearate, ethylcellulose, magnesium oxide, hydroxypropylmethylcellulose phthalate, esters of fatty acids, talc, titanium oxide, yellow ferric oxide, carnauba wax.

6.2 Incompatibilities

6.3 <u>Shelf-life</u> Shelf-life before

e opening the aluminium pouch - 36 months.

6.4 Special Precautions for Storage
PARIET® should be stored at or below 25°C and be protected from moisture after unsealing.
6.5 Nature and Contents of Container
PARIET® 10 mg Tablets: PTP packages of 14 tablets
PARIET® 20 mg Tablets: PTP packages of 14 tablets
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PARIET®

6.6 Instructions for Use/Handling

pecified instruction needed.

ADMINISTRATIVE DATA: . MARKETING AUTHORISATION HOLDER Eisai (Singapore) Pte Ltd, 152 Beach Road, #15-07/08 Gateway East, Singapore 189721 3. MARKETING AUTHORISATION NUMBER PARIET® 10 mg Tablets: SIN11232P PARIET® 20 mg Tablets: SIN11233P

9. DATE OF FIRST AUTHORISATION/RENEWAL OF AUTHORISATION

29 November 1999 10. DATE OF (PARTIAL) REVISION OF THE TEXT 7 March 2023



Renacked by INTERTHAI PHARMACEUTICAL MANUFACTURING LTD.

Bangkok, Thailan

112400212 P4/23 E2/2 SP