

1.3 Product Information

1.3.1 Summary of Product Characteristics (SmPC)

1. Name of the medicinal product

Product name: GRETHER Dispersible Tablets

Approved generic name: Artemether and Lumefantrin Dispersible Tablets

Strength: Each tablet contains Artemether 20mg and Lumefantrin 120mg

Pharmaceutical form: Oral tablets

2. Qualitative and quantitative composition

Qualitative Declaration, The active substance should be declared by its recommended INN. Accompanied by its salt or hydrate form if relevant:

Artemether , Lumefantrine

Quantitative Declaration, The quantity of the active substance must be expressed per dosage unit.

Each tablets contains: Artemether 20mg and Artesuante 120mg.

For a full list of excipients, see section 6.1.

3. Pharmaceutical form

Yellow, roundness tablets.

4. Clinical particulars

Therapeutic indications

Artemether and Lumefantrin Dispersible Tablets is used for the curative treatment of the mixed infections of malaria, including plasmodium falciparum resistant to other classic antimalarials, particularly to adults and children more than 5 kg body weight in endemic area.

It is also recommended for the treatment of the apparent emergence of malaria.

Posology and method of administration

Artemether and Lumefantrine Dispersible Tablets should be taken with food. Patients with acute malaria are frequentil averse to food. Patients should be encouraged to resume normal eating as soon as food can be tolerated since this improves absorption of artemether and lumefantrine.

Dosage and administration:

GRETHER DISPERSIBLE TABLETS 20/120MG FOR CHILDREN:

Body Weight (In kg)	Age (In years)	Day-1		Day-2		Day-3	
		0 Hour	8 Hours	Morning	Night	Morning	Night
5 - 14	<3	1 tablet	1 tablet	1 tablet	1 tablet	1 tablet	1 tablet

Contraindication

It is contraindicated in:

- patients with known hypersensitivity to the active substances or to any of the excipients.
- patients with severe malaria according to WHO definition.
- patients who are taking any drug which is metabolised by the cytochrome enzyme CYP2D6 (e.g. flecainide, metoprolol, imipramine, amitriptyline, clomipramine).
- patients with a family history of sudden death or of congenital prolongation of the QTc interval on electrocardiograms, or with any other clinical condition known to prolong the QTc interval.
- patients taking drugs that are known to prolong the QTc interval. These drugs include:
 - antiarrhythmics of classes IA and III,
 - neuroleptics, antidepressive agents,
 - certain antibiotics including some agents of the following classes: macrolides, fluoroquinolones, imidazole and triazole antifungal agents,
 - certain non-sedating antihistamines (terfenadine, astemizole),
 - cisapride.
- patients with a history of symptomatic cardiac arrhythmias or with clinically relevant bradycardia or with congestive cardiac failure accompanied by reduced left ventricle ejection fraction.
- patients with disturbances of electrolyte balance e.g. hypokalemia or hypomagnesemia.

Special warnings and precautions for use

Artemether and Lumefantrine Tablets must not be used in the first trimester of pregnancy in situations where other suitable and effective antimalarials are available (see section 4.6).

Artemether and Lumefantrine Tablets has not been evaluated for the treatment of severe malaria, including cases of cerebral malaria or other severe manifestations such as pulmonary oedema or renal failure.

Due to limited data on safety and efficacy, Artemether and Lumefantrine Tablets should not be given concurrently with any other antimalarial agent (see section 4.5) unless there is no other treatment option.

If a patient deteriorates whilst taking Artemether and Lumefantrine Tablets, alternative treatment for malaria should be started without delay. In such cases, monitoring of the ECG is recommended and steps should be taken to correct any electrolyte disturbances.

The long elimination half-life of lumefantrine must be taken into account when administering quinine in patients previously treated with Artemether and Lumefantrine Tablets.

If quinine is given after Artemether and Lumefantrine Tablets, close monitoring of the ECG is advised (see section 4.5).

If Artemether and Lumefantrine Tablets is given after mefloquine, close monitoring of food intake is advised (see section 4.5).

In patients previously treated with halofantrine, Artemether and Lumefantrine Tablets should not be administered earlier than one month after the last halofantrine dose.

Artemether and Lumefantrine Tablets is not indicated for, and has not been evaluated in, the treatment of malaria due to *P. vivax*, *P. malariae* or *P. ovale*, although some patients in clinical studies had co-infection with *P. falciparum* and *P. vivax* at baseline. Artemether and Lumefantrine Tablets is active against blood stages of *Plasmodium vivax*, but is not active against hypnozoites.

Artemether and Lumefantrine Tablets is not indicated and has not been evaluated for prophylaxis.

Like other antimalarials (e.g. halofantrine, quinine and quinidine) Artemether and Lumefantrine Tablets has the potential to cause QT prolongation.

In the adult/adolescent population included in clinical trials, 8 patients (0.8%) receiving Artemether and Lumefantrine Tablets experienced a QTcB >500 msec and

3 patients (0.4%) a QTcF >500 msec. Prolongation of QTcF interval >30 msec was observed in 36% of patients.

In the infant/children population included in clinical trials, 3 patients (0.2%) experienced a QTcB >500 msec. No patient had QTcF >500 msec. Prolongation of QTcF intervals >30 msec was observed in 34% of children weighing 5-10 kg, 31% of children weighing 10-15 kg and 24% of children weighing 15-25 kg, and 32% of children weighing 25-35 kg.

Caution is recommended when combining Artemether and Lumefantrine Tablets with drugs exhibiting variable patterns of inhibition, induction or competition for CYP3A4 as the therapeutic effects of some drugs could be altered (see sections 4.5 and 5.2).

Patients who remain averse to food during treatment should be closely monitored as the risk of recrudescence may be greater.

Caution is advised when administering Artemether and Lumefantrine Tablets to patients with severe renal, hepatic or cardiac problems (see section 4.2).

Interaction with other medical products and other forms of interaction

Interaction with other antimalarials (see section 4.4)

A drug interaction study with Artemether and Lumefantrine Tablets in man involved administration of a 6-dose regimen over 60 hours in healthy volunteers which was commenced at 12 hours after completion of a 3-dose regimen of mefloquine or placebo. Plasma mefloquine concentrations from the time of addition of Artemether and Lumefantrine Tablets were not affected compared with a group which received mefloquine followed by placebo.

Pre-treatment with mefloquine had no effect on plasma concentrations of artemether or the artemether/dihydroartemisinin ratio but there was a significant reduction in plasma levels of lumefantrine, possibly due to lower absorption secondary to a mefloquine-induced decrease in bile production. Patients should be encouraged to eat at dosing times to compensate for the decrease in bioavailability.

Interaction with CYP450 3A4 inhibitors (ketoconazole)

Both artemether and lumefantrine are metabolised predominantly by the cytochrome enzyme CYP3A4, and do not inhibit this enzyme at therapeutic concentrations. The concurrent oral administration of ketoconazole with Artemether and Lumefantrine Tablets led to a modest increase (≤ 2 -fold) in artemether, DHA, and lumefantrine exposure in healthy adult subjects. This increase in exposure to the antimalarial

combination was not associated with increased side effects or changes in electrocardiographic parameters. Based on this study, dose adjustment of Artemether and Lumefantrine Tablets is considered unnecessary in falciparum malaria patients when administered in association with ketoconazole or other potent CYP3A4 inhibitors.

Interaction with CYP450 enzymes

Studies in humans have demonstrated that artemisinins have some capacity to induce CYP3A4 and CYP2C19 and inhibit CYP2D6 and CYP1A2. Although the magnitude of the changes was generally low it is possible that these effects could alter the therapeutic response of drugs that are predominantly metabolised by these enzymes (see sections 4.4 and 5.2).

Lumefantrine was found to inhibit CYP2D6 in vitro. This may be of particular clinical relevance for compounds with a low therapeutic index. Co-administration of Artemether and Lumefantrine Tablets with drugs that are metabolised by this iso-enzyme is contraindicated (see section 4.3 and 5.2). In vitro studies indicated that lumefantrine metabolism is inhibited by halofantrine and quinine.

Interaction with protease inhibitor anti-retroviral drugs

Due to variable patterns of inhibition, induction or competition for CYP3A4 with protease inhibitor anti-retroviral drugs, use of such drugs, especially combinations of them, concomitantly with Artemether and Lumefantrine Tablets, requires clinical surveillance and monitoring of clinical response/undesirable effects.

Other interactions

Administration of Artemether and Lumefantrine Tablets is contra-indicated in patients taking drugs that are known to prolong the QTc interval (see section 4.3).

In patients previously treated with halofantrine, Artemether and Lumefantrine Tablets should be dosed at least one month after the last halofantrine dose.

Due to the limited data on safety and efficacy, Artemether and Lumefantrine Tablets should not be given concurrently with any other antimalarial agent.

In addition, due to the propensity of some antimalarial agents to prolong the QTc interval, caution is advised when administering Artemether and Lumefantrine Tablets to patients in whom there may still be detectable concentrations of these drugs in the plasma following prior treatments.

Pregnancy and lactation

Do not use this medicine to pregnant woman without medical advice. Concerning lactation, no data is available today about its excretion in the maternal milk.

Do not hesitate to seek the advice of your physician or your pharmacist.

Pregnancy

There is insufficient data from the use of artemether and lumefantrine in pregnant women. Based on animal data, Artemether and Lumefantrine Tablets is suspected to cause serious birth defects when administered during the first trimester of pregnancy (see sections 4.4 and 5.3) Reproductive studies with artemether have shown evidence of post-implantation losses and teratogenicity in rats and rabbits. Other artemisinin derivatives have also demonstrated teratogenic potential with an increased risk during early gestation (see section 5.3). Artemether and Lumefantrine Tablets treatment must not be used during the first trimester of pregnancy in situations where other suitable and effective antimalarials are available (see section 4.4). However, it should not be withheld in life-threatening situations, where no other effective antimalarials are available. During the second and third trimester, treatment should only be considered if the expected benefit to the mother outweighs the risk to the foetus.

Lactation

Animal data suggest excretion into breast milk but no data are available in humans. Women taking Artemether and Lumefantrine Tablets should not breast-feed during their treatment. Due to the long elimination half-life of lumefantrine (4 to 6 days), it is recommended that breast-feeding should not resume until at least one week after the last dose of Artemether and Lumefantrine Tablets unless potential benefits to the mother and child outweigh the risks of Artemether and Lumefantrine Tablets treatment.

Effects on ability to drive and use machines

Patients should know that dizziness or fatigue may occur, and so should stop driving and operating machinery during the treatment.

Undesirable effects

The safety of Artemether and Lumefantrine Tablets has been evaluated in 20 clinical trials with more than 3500 patients. A total of 1810 adults and adolescents above 12 years of age as well as 1788 infants and children of 12 years of age and below have received Artemether and Lumefantrine Tablets in clinical trials.

Adverse reactions reported from clinical studies and post-marketing experience are listed below according to system organ class.

Adverse reactions are ranked under headings of frequency using the MedDRA frequency convention:

Very common ($\geq 1/10$)

Common ($\geq 1/100$ to $< 1/10$)

Uncommon ($\geq 1/1,000$ to $< 1/100$)

Rare ($\geq 1/10,000$ to $< 1/1,000$)

Very rare ($< 1/10,000$)

Not known (cannot be estimated from available data).

Table 1 Frequency of Undesirable effects

	Adults and adolescents above 12 years of age	Infants and children of 12 years of age and below (incidence estimates)
Cardiac disorders		
Palpitations	Very common	Common (1.8 %)
Electrocardiogram QT prolonged	Common	Common (5.3 %)
Nervous system disorders		
Headache	Very common	Very common (17.1 %)
Dizziness	Very common	Common (5.5 %)
Paraesthesia	Common	--
Ataxia, hypoaesthesia	Uncommon	--
Clonus, somnolence	Uncommon	Uncommon
Respiratory, thoracic and mediastinal disorders		
Cough	Common	Very common (22.7 %)
Gastrointestinal disorders		
Vomiting	Very common	Very common (20.2 %)
Abdominal pain	Very common	Very common (12.1 %)
Nausea	Very common	Common (6.5 %)
Diarrhoea	Common	Common (8.4 %)
Skin and subcutaneous tissue disorders		
Rash	Common	Common (2.7 %)
Pruritus	Common	Uncommon

Urticaria, angioedema*	Not known	Not known
Musculoskeletal and connective tissue disorders		
Arthralgia	Very common	Common (2.1 %)
Myalgia	Very common	Common (2.2 %)
Metabolism and nutrition disorders		
Anorexia	Very common	Very common (16.8 %)
General disorders and administration site conditions		
Asthenia	Very common	Common (5.2 %)
Fatigue	Very common	Common (9.2 %)
Gait disturbance	Common	--
Immune system disorders		
Hypersensitivity	Not known	Rare
Hepatobiliary disorders		
Liver function tests increased	Uncommon	Common (4.1 %)
Psychiatric disorders		
Sleep disorders	Very common	Common (6.4 %)
Insomnia	Common	Uncommon

*: These adverse reactions were reported during post-marketing experience. Because these spontaneously reported events are from a population of uncertain size, it is difficult to estimate their frequency.

Overdose

In cases of suspected overdose symptomatic and supportive therapy should be given as appropriate, which should include ECG and blood potassium monitoring.

5. Pharmacological properties

Pharmacotherapeutic group: Antimalarial

Pharmacotherapeutic group: antimalarials, blood schizonticide, ATC code: P01 BE52.

Pharmacodynamic effects

Both components of Artemether and Lumefantrine Tablets and Artemether and Lumefantrine Powder for Oral Suspension have their own action site in the malarial parasite. The presence of the endoperoxide bridge in Artemether (generating singlet oxygen and free radicals: those are very cytotoxic to the plasmodia). It appears to be essential for antimalarial activity. Morphological changes of the parasitic membranes induced by Artemether have been described, being the result of free-radical action.

Lumefantrine interferes more in the polymerization processes.

Other in-vitro tests suggest that both cause a marked diminution of nucleic acid synthesis. Inhibition of protein synthesis as the basic mechanism of action is suggested in the studies which showed morphological changes in ribosomes as well as in the endoplasmic reticulum, although Artemether acts essentially as a blood schizonticide, Artemether and Lumefantrine Tablets and Artemether and Lumefantrine Powder for Oral Suspension did clear gametocytes in comparative clinical trials.

Pharmacokinetic properties

Orally administered Artemether is rapidly absorbed reaching therapeutic levels within 60-90 minutes. Artemether is metabolized in the liver to the demethylated derivate dihydroartemisinin (DHA). The elimination is rapid, with a T_{1/2} of 2-4 hours. Dihydroartemisinin, being a potent antimalarial itself, has a T_{1/2} of 2-4 hours. The degree of binding to plasma proteins varies markedly according to the species studied. The binding of Artemether with plasma protein in man is about 50%. Radioactivity distribution of Artemether was found to be equal between cells and plasma.

The absorption of Lumefantrine is highly influenced by lipids and food intake (from 10% by fasting to 100% at normal diet). Therefore patients should be encouraged to take the medication with some fatty food as soon as it can be tolerated.

Lumefantrine is N-debutylated in human liver microsomes. This metabolite has 5 to 8 fold higher antiparasitic effects than lumefantrine. Lumefantrine is found to be highly protein bound (95%). The elimination half life in malarial attaint patients will be 4 to 6 days. Lumefantrine and its metabolites are found in bile and faeces.

Preclinical safety data

General toxicity

The main changes observed in repeat-dose toxicity studies were associated with the expected pharmacological action on erythrocytes, accompanied by responsive secondary haematopoiesis.

Mutagenicity

No evidence of mutagenicity was detected in in vitro or in vivo tests with an artemether:lumefantrine combination (consisting of 1 part artemether:6 parts lumefantrine). In the micronucleus test myelotoxicity was seen at all dose levels (500, 1,000 and 2,000 mg/kg), but recovery was almost complete 48 hours after dosing.

Carcinogenicity

Carcinogenicity studies with the artemether:lumefantrine combination were not conducted.

Reproductive toxicity studies

Reproductive toxicity studies performed with the artemether:lumefantrine combination caused maternal toxicity and increased post-implantation loss in rats and rabbits at doses ≥ 50 mg/kg/day (corresponding to approximately 7 mg/kg/day artemether) and 175 mg/kg/day (corresponding to 25 mg/kg/day artemether) respectively. These effects were not observed at lower doses.

Lumefantrine alone caused no sign of reproductive or development toxicity at doses up to 1,000 mg/kg/day in rats and rabbits.

Embryotoxicity has been observed in rat and rabbit reproductive toxicity studies conducted with artemether, a derivative of artemisinin. Artemisinins (e.g. artesunate) are known to be embryotoxic.

Artemether caused increases in post-implantation loss and teratogenicity (characterised as a low incidence of cardiovascular and skeletal malformations) in rats at 19.4 mg/kg, and in rabbits at 30 mg/kg. Maternal toxicity was also observed in rabbits at 30 mg/kg/day. No other adverse effects were observed at lower doses in rabbits. The no observed effect dose was 3 mg/kg/day in rats and 25 mg/kg/day in rabbits.

The embryotoxic artemether dose, 20 mg/kg/day in the rat, yields artemether and dihydroartemisinin exposures similar to those achieved in humans.

Artesunate, a structurally related compound, also caused increases in post-implantation loss and teratogenicity (low incidence of cardiovascular and skeletal malformations) in rats at 6 mg/kg and in the lowest dose tested in the rabbits, 5 mg/kg/day.

Cardiovascular Pharmacology

In toxicity studies in dogs at doses >600 mg/kg/day only, there was some evidence of prolongation of the QTc interval, at higher doses than intended for use in man. In an in vitro assay of HERG channels stably expressed in HEK293 cells, lumefantrine and the main metabolite desbutyl-lumefantrine showed some inhibitory potential in one of the currents responsible for cardiac repolarization. The potency was lower than the other antimalarial drugs tested. From the estimated IC₅₀ values, the order of potency of HERG current block was halofantrine (IC₅₀ = 0.04 μ M) $>$ chloroquine (2.5 μ M) $>$ mefloquine 2.6 μ M) $>$ desbutyl-lumefantrine (5.5 μ M) $>$ lumefantrine (8.1 μ M).

Clinical studies show, that prolongation of QTcF can occur with standard dosing of Artemether and Lumefantrine Tablets (see sections 4.3, 4.4 and 5.1).

6. Pharmaceutical particulars

List of excipients

Low-substituted hydroxypropyl cellulose , Microcrystalline cellulose , Tween 80 , Ethanol , Crospovidone , Sodium Carboxymethyl Starch , Powdered orange flavor , Silicon Dioxide, Magnesium stearate

Incompatibilities

Not applicable.

Shelf life

24 months

Special precautions for storage

Store below 30° C

Nature and contents of container

Blister(Aluminum foil-PVC).

Packs of 6 tablets per blister, 1 blisters per packs.

Marketing authorization holder

Manufacturer name: FRONT Pharmaceutical PLC

Physical address: Economic and Technical Development Zone, Xuancheng, China

Marketing authorization numbers

Date of first authorization/renewal of the authorization

Date of first authorization: 18 January 2020

Date of revision of the text

18 January 2020

Labelling (outer & inner labels)

GRETHER Dispersible
Artemether/Lumefantine

6 Dispersible Tablets

Pour le traitement de toutes les formes de paludisme résistant.

GRETHER

20/120

Comprimés dispersibles
Pour les enfants

Agent antipaludique
P.O.M

NANDA/C REG NO: B4-5821
Batch No:
Mfg. Date:
Exp. Date:

GH Marketed by:
Green Hope Health Care Limited
1b Ujuzama, St Arka, Anambra State

Each tablet contains:
Artemether.....20mg
Lumefantrine.....120mg

Manufactured by:
FRONT PHARMACEUTICAL PLC
Wanchang Economic and Technical Development Zone, Anhui China

Dosage as directed by the physician.
Store in a cool dry and dark place. Below temperature of 30 C.
Keep medicines out of the reach of children.

GRETHER Dispersible
Artemether/Lumefantine

6 Dispersible Tablets

For the treatment of all forms of resistant malaria.

GRETHER

20/120

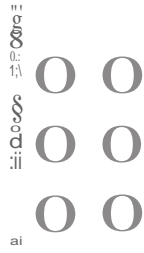
Dispersible Tablets
For Children

Antimalarial Agent
P.O.M

GH Marketed by:
Green Hope Health Care Limited
1b Ujuzama, St Arka, Anambra State

Conserver dans un endroit frais, sec et sombre. Température inférieure à 30 C.
Conservez les médicaments hors de la portée des enfants.

٦ ٢٠/١٢٠ ٢٠/١٢٠ ٢٠/١٢٠ ٢٠/١٢٠ ٢٠/١٢٠ ٢٠/١٢٠
 ٦ ٢٠/١٢٠ ٢٠/١٢٠ ٢٠/١٢٠ ٢٠/١٢٠ ٢٠/١٢٠ ٢٠/١٢٠
 ٦ ٢٠/١٢٠ ٢٠/١٢٠ ٢٠/١٢٠ ٢٠/١٢٠ ٢٠/١٢٠ ٢٠/١٢٠



$$4.5+46.5+5+46.5+5+46.5+5+46.5+4.5=210\text{mm}$$

$$46.5 \times 70\text{mm} \times 4 \text{ f \&}$$

02078164#

Package Insert (also known as patient information PIL)

GRETHER

(Artemether / lumefantrine)

GRETHER TABLETS 20/120MG NAFDAC REG. NO. B4-5820
 GRETHER TABLETS 80/480MG NAFDAC REG. NO. B4-5824
 GRETHER DISPERSIBLE TABLETS 20/120MG NAFDAC REG. NO. B4-5821
 GRETHER FOR ORAL SUSPENSION NAFDAC REG. NO. B4-5835
 GRETHER GRANULES 20/120MG NAFDAC REG. NO. B4-5835

1. IDENTIFICATION OF MEDICINE:
• BRAND NAME: GRETHER
• PHARMACEUTICAL FORM AND PRESENTATION:
GRETHER TABLETS 20/120MG : Pack of 24 tablets
GRETHER TABLETS 80/480MG : Pack of 6 tablets
GRETHER DISPERSIBLE TABLETS 20/120MG : Pack of 6 tablets
GRETHER GRANULES 20/120MG : Pack of 6 sachets
GRETHER FOR ORAL SUSPENSION : Bottle of 60ml
• QUALITATIVE AND QUANTITATIVE COMPOSITION:
GRETHER TABLETS :
 - ARTEMETHER 20 MG 80 MG 20MG
 - LUMEFANTRINE 120 MG 480 MG 120MG
GRETHER GRANULES AND FOR ORAL SUSPENSION :
 - ARTEMETHER 20MG 180MG/60ML
 - LUMEFANTRINE 120MG 1080MG/60ML

EXCIPIENTS: q.s.

• THERAPEUTIC CLASS: Antimalarial
2. PHARMACOLOGICAL PROPERTIES:
• Pharmacodynamics:
 Both components of GRETHER Tablets and GRETHER Granules and GRETHER Powder for oral suspension have their own action site in the malarial parasite. The presence of the endoperoxide bridge in Artemether (generating singlet oxygen and free radicals, those are very cytotoxic to the plasmodia). It appears to be essential for antimalarial activity. Morphological changes of the parasitic membranes induced by Artemether have been described, being the result of free-radical action. Lumefantrine interferes more in the polymerization processes. Other in-vitro tests suggest that both cause a marked diminution of nucleic acid synthesis. Inhibition of protein synthesis as the basic mechanism of action is suggested in the studies which showed morphological changes in ribosomes as well as in the endoplasmic reticulum, although Artemether acts essentially as a blood schizonticide, GRETHER Tablets and GRETHER Granules and GRETHER Powder for oral suspension did clear gametocytes in comparative clinical trials.
• Pharmacokinetics:
 Orally administered Artemether is rapidly absorbed reaching therapeutic levels within 60-90 minutes. Artemether is metabolized in the liver to the demethylated derivate dihydroartemisinin (DHA). The elimination is rapid, with a T 1/2 of 2-4 hours. Dihydroartemisinin, being a potent antimalarial itself, has a T 1/2 of 2-4 hours. The degree of binding to plasma proteins varies markedly according to the species studied. The binding of Artemether with plasma protein in man is about 50%. Radioactivity distribution of Artemether was found to be equal between cells and plasma.
 The absorption of Lumefantrine is highly influenced by lipids and food intake (from 10% by fasting to 100% at normal diet). Therefore patients should be encouraged to take the medication with some fatty food as soon as it can be tolerated.
 Lumefantrine is N-debutylated in human liver microsomes. This metabolite has 5 to 8 fold higher antiparasitic effects than lumefantrine. Lumefantrine is found to be highly protein bound (95%). The elimination half life in malarial attaint patients will be 4 to 6 days. Lumefantrine and its metabolites are found in bile and faeces.

3. WHEN SHOULD THIS MEDICINE BE USED?
 This medicine is used for the curative treatment of the mixed infections of malaria, including plasmodium falciparum resistant to other classic antimalarials, particularly to adults and children more than 5 kg body weight in endemic area.
 It is also recommended for the treatment of the apparent emergence of malaria.
4. CAUTION!
• WHEN SHOULD THIS MEDICINE NOT BE USED ?
 This medicine should not be used in case of allergy to one of its components or excipients. It is contraindicated during the first 3 months of pregnancy and also for prophylaxis.
 In case of doubt, do not hesitate to consult a physician or a pharmacist.
• WARNINGS AND PRECAUTIONS FOR USE:
 The patients who have permanent aversion to food during the treatment should be watched carefully, because there is a possible majoration of risk of upsurge. This drug was not evaluated in the complicated treatment of malaria including cerebral malaria and kidney insufficiency. On the other hand, an elongation of interval of qtc without clinical effects has been observed in some patients been treated with this drug, in particular with dehydration or an ionic disorder. No correlation was found between elongation of qtc interval and high concentration to the patients.
• PREGNANCY AND LACTATION:
 Do not use this medicine to pregnant woman without medical advice. Concerning lactation, no data is available today about its excretion in the maternal milk.
Do not hesitate to seek the advice of your physician or your pharmacist.
• EFFECT ON DRIVING AND OPERATING MACHINERY:

Patients should know that dizziness or fatigue may occur, and so should stop driving and operating machinery during the treatment.

• DRUG INTERACTIONS AND OTHER INTERACTIONS:
 In order to avoid possible interactions between several medicines, you should always inform your physician or pharmacist about any other treatment that you are taking. No specific study of interaction was conducted with GRETHER. However patients with GRETHER have taken at the same time antipyretics, antibiotics and a hydroelectric equilibration without bad tolerance.

5. HOW TO USE THIS MEDICINE?
• DOSAGE AND ADMINISTRATION :

GRETHER TABLETS 20/120MG FOR ADULTS & CHILDREN:

Body Weight (In kg)	Age (In years)	Day-1		Day-2		Day-3	
		0 Hour	8 Hours	Morning	Night	Morning	Night
5 - 14	<3	1 tablet	1 tablet	1 tablet	1 tablet	1 tablet	1 tablet
15 - 24	≥3-8	2 tablets	2 tablets	2 tablets	2 tablets	2 tablets	2 tablets
25 - 34	≥9-14	3 tablets	3 tablets	3 tablets	3 tablets	3 tablets	3 tablets
>34	>14	4 tablets	4 tablets	4 tablets	4 tablets	4 tablets	4 tablets

GRETHER TABLETS 80/480MG FOR ADULTS:

Body Weight (In kg)	Age (In years)	Day-1		Day-2		Day-3	
		0 Hour	8 Hours	Morning	Night	Morning	Night
>34	>14	1 tablet	1 tablet	1 tablet	1 tablet	1 tablet	1 tablet

GRETHER DISPERSIBLE TABLETS 20/120MG FOR CHILDREN:

Body Weight (In kg)	Age (In years)	Day-1		Day-2		Day-3	
		0 Hour	8 Hours	Morning	Night	Morning	Night
5 - 14	<3	1 tablet	1 tablet	1 tablet	1 tablet	1 tablet	1 tablet

GRETHER GRANULES 20/120MG FOR CHILDREN:

Body Weight (In kg)	Age (In years)	Day-1		Day-2		Day-3	
		0 Hour	8 Hours	Morning	Night	Morning	Night
5 - 14	<3	1 sachet	1 sachet	1 sachet	1 sachet	1 sachet	1 sachet

GRETHER 180/1080MG FOR ORAL SUSPENSION FOR CHILDREN:

Body Weight (In kg)	Age (In Months)	Day-1		Day-2		Day-3	
		0 Hour	8 Hours	Morning	Night	Morning	Night
1.5 - 3	>3-9	5 ml	5 ml	5 ml	5 ml	5 ml	5 ml
4 - 14	>9-36	7 ml	7 ml	7 ml	7 ml	7 ml	7 ml

PREPARATION OF ORAL SUSPENSION:
 Add recently boiled and cooled water to the bottle and carefully bring it to the mark indicating 60ml level. When adding water, the mixture turns yellow. After adding the water, shake the mixture vigorously until all the powder disappears. This oral suspension is stable for several days.
Shake well before use.
 An intensive cure of 3 days is recommended.
Second dose to be taken strictly after 8 hours of first dose.
Better taken with food especially fatty meal.
 If there is vomiting within one hour of taking GRETHER, repeat the dose. Take dosage exactly as recommended, otherwise infection may return.

• WHAT TO DO IN CASE OF OVERDOSAGE:
 In case of over-dosage, you should stop treatment and consult immediately a physician without delay for symptomatic specialized treatment.

6. UNDESIRABLE AND UNPLEASANT EFFECTS:
 Like all active ingredients, this medicine may cause side effects but the recording of the side effects during the clinical tests with GRETHER are less frequent and of less intensity than other anti-malarials. Common side effects that may occur are nausea, abdominal pain, vomiting, loss of appetite, dizziness, headache, trouble in sleeping, fatigue and general weakness, rarely rash and itching of the skin may occur. Some of these symptoms also accompany a malarial attack and so it may be difficult to distinguish whether these are malarial symptoms or the adverse effects of the drug.
In case of doubt, don't hesitate to consult a physician or a Pharmacist.

7. STORAGE:
 Store below 25°C. Protect from light.
KEEP ALL MEDICINES OUT OF THE REACH OF CHILDREN.

8. SHELF LIFE: 2 Years from the date of manufacturing.

Manufactured by: FRONT PHARMACEUTICAL PLC.
 Xuancheng Economic and Technical Development Zone, Anhui, China
 Marketed by: Green Hope Health Care Ltd.
 1B, Ugwugama Str, Awka, Anambra State.

编号: 0207814 0207815
 0207816 0207817
 0207818
 尺寸: 148X240MM
 材料: 70克双胶纸