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**PROFESSIONAL INFORMATION**



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## PROFESSIONAL INFORMATION – GITSALAT 30 CONTROLLED RELEASE TABLETS

Bayer (Pty) Ltd

Published date: 26 July 2016

Addition of 30's pack size as alternative: 11 December 2021

**SCHEDULING STATUS:**

**S3**

### PROPRIETARY NAMES AND DOSAGE FORM:

#### **GITSALAT 20**

Controlled Release tablet

#### **GITSALAT 30**

Controlled Release tablet

#### **GITSALAT 60**

Controlled Release tablet

### COMPOSITION:

Each GITSALAT 20 tablet contains 20 mg nifedipine

Each GITSALAT 30 tablet contains 30 mg nifedipine

Each GITSALAT 60 tablet contains 60 mg nifedipine

Excipients: Cellulose acetate, ferric(III) oxide (E 172), hydroxypropyl cellulose, macrogol 3350, macrogol 200 000, macrogol 5 million, magnesium stearate, hydroxypropyl methylcellulose, sodium chloride, propylene glycol, titanium(IV) oxide (E 171).

### PHARMACOLOGICAL CLASSIFICATION:

A 7.1. Vasodilators, hypotensive medicines

### PHARMACOLOGICAL ACTION:

#### **Pharmacodynamic properties:**

Nifedipine, a calcium channel blocker, improves oxygen supply to the myocardium with simultaneous decrease of oxygen requirements. Nifedipine has a vasodilatory effect on the peripheral arterial beds causing a fall in peripheral vascular resistance and an increase in peripheral blood flow.  $Ca^{2+}$ -channel blockers are useful in low-renin hypertension. Nifedipine dilates submaximally both clear and atherosclerotic coronary arteries, thus protecting the heart against coronary artery spasm and improving perfusion to the ischaemic myocardium. The bioavailability of the 20 mg tablet is proportional to that of the 30 mg tablet.

#### **Pharmacokinetic properties:**

GITSALAT tablets are formulated to provide nifedipine at an approximately constant rate over 24 hours. Nifedipine is released from the tablet at a zero-order rate by a membrane-controlled, osmotic push-pull process. The delivery rate is independent of gastrointestinal pH or motility. Upon swallowing, the biologically inert components of the tablet remain intact during gastrointestinal transit and are eliminated in the faeces as an insoluble shell.

#### *Absorption:*

After oral administration nifedipine is almost completely absorbed. At steady state the bioavailability of nifedipine in GITSALAT tablets ranges from 68 to 86 % relative to nifedipine capsules. Administration in the presence of food slightly alters the early rate of absorption but does not influence the extent of medicine availability.

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### *Distribution:*

Nifedipine is about 95 % bound to plasma protein (albumin). The distribution half-life after intravenous administration has been determined to be 5 to 6 minutes.

### *Biotransformation:*

After oral administration nifedipine is metabolized in the gut wall and in the liver, primarily by oxidative processes. These metabolites show no pharmacodynamic activity.

Nifedipine is excreted in the form of its metabolites predominantly via the kidneys, and about 5 to 15 % via the bile in the faeces. The unchanged substance is recovered only in traces (below 0, 1 %) in the urine.

### *Elimination:*

The terminal elimination half-life is 1, 7 to 3, 4 hours in conventional formulations (nifedipine capsules). The terminal half-life after GITSALAT does not represent a meaningful parameter as a plateau-like plasma concentration is maintained during release from the tablets and absorption.

### *Special Populations:*

In cases of impaired kidney function no substantial changes have been detected in comparison with healthy volunteers.

In cases of impaired liver function the total clearance is reduced (see Contra-indications).

## INDICATIONS:

- Treatment of mild to moderate hypertension
- Prophylaxis of chronic stable angina pectoris

## CONTRA-INDICATIONS:

- GITSALAT is contra-indicated in pregnancy and during breastfeeding (see Pregnancy and lactation).
- GITSALAT must not be used in cases of known hypersensitivity to nifedipine or to any of the excipients.
- GITSALAT must not be used in cardiovascular shock, clinically significant aortic stenosis, unstable angina, or during or within one month of a myocardial infarction.
- Care must be exercised in patients with very low blood pressure (severe hypotension with systolic pressure less than 90 mm Hg), in cases of manifest heart failure and in the case of severe aortic stenosis.
- Owing to the duration of action of the formulation, GITSALAT should not be administered to patients with hepatic impairment.
- GITSALAT should not be administered to patients with a history of gastrointestinal obstruction, oesophageal obstruction, or any degree of decreased lumen diameter of the gastrointestinal tract.
- GITSALAT must not be used in patients with a Kock pouch (ileostomy after proctocolectomy).
- GITSALAT is contra-indicated in patients with inflammatory bowel disease.
- GITSALAT is contra-indicated in combination with rifampicin because effective plasma levels of nifedipine may not be obtained because of enzyme induction by rifampicin (see Interactions).

## WARNINGS AND SPECIAL PRECAUTIONS:

Grapefruit juice inhibits the metabolism of GITSALAT. After regular intake of grapefruit juice the blood pressure lowering effect may last for at least 3 days after the last ingestion of grapefruit juice. Ingestion of grapefruit/grapefruit juice is therefore to be avoided while taking GITSALAT (see Interactions).

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The following medicines are known to either inhibit or to induce cytochrome P450 3A4 system and may therefore alter the first pass or clearance of nifedipine:

Digoxin, phenytoin, quinidine, quinupristin, dalfopristin, cimetidine, rifampicin, diltiazem, cisapride, erythromycin, fluoxetine, amprenavir, indinavir, nelfinavir, ritonavir, saquinavir, ketoconazole, itraconazole, fluconazole, nefazodone, tacrolimus, carbamazepine, phenobarbitone and valproic acid.

Upon co-administration with these medicines, the blood pressure should be monitored and, if necessary, a reduction of the nifedipine dose should be considered.

Co-administration of GITSALAT with i.v. magnesium sulfate may cause an excessive fall in blood pressure. Safety of nifedipine as tocolytic agent and in the treatment of hypertension in pregnancy after 20 weeks has not been established. Harm to the foetus cannot be excluded.

Although a "steal" effect with GITSALAT has not been demonstrated, GITSALAT therapy should be discontinued in patients experiencing this effect.

GITSALAT should not be switched once a patient has been stabilised, without appropriate monitoring.

Care should be exercised in dialysis patients with malignant hypertension and irreversible kidney failure with hypovolaemia as a marked fall in blood pressure may occur.

Caution should be exercised in angina patients with hypotension, in cases of manifest heart failure and in the case of severe aortic stenosis.

GITSALAT should be used with caution in patients with a poor cardiac reserve.

A transient increase in blood glucose has been noted. Care must be taken in patients with diabetes mellitus.

In single cases obstructive gastrointestinal symptoms have been described without known history of gastrointestinal disorders. Bezoars can occur in rare cases and may require surgical intervention.

GITSALAT must not be used in patients with Kock pouch (ileostomy after proctocolectomy).

When doing barium contrast X-ray, GITSALAT may cause false positive effects (e.g. filling defects interpreted as polyp).

There are no recommendations for use in children.

In single cases of *in vitro* fertilization, nifedipine has been associated with reversible biochemical changes in the spermatozoa's head section that may result in impaired sperm function. In men who are repeatedly unsuccessful in fathering a child by *in vitro* fertilization and if no other explanation can be found, nifedipine should be considered a possible reason.

GITSALAT can enhance or supplement the action of blood pressure lowering preparations such as beta-receptor blockers and diuretics. An additive effect resulting in postural hypotension should be borne in mind. Blood pressure should be monitored carefully during initiation and upward titration of GITSALAT especially if patients are on antihypertensive therapy.

In dialysis patients with malignant hypertension and hypovolaemia, a distinct fall in blood pressure can occur as a result of vasodilation.

### Effect on ability to drive and use machines:

Reactions to GITSALAT, which vary in intensity from individual to individual, can impair the ability to drive or to operate machinery. This applies particularly at the start of the treatment, on changing the medication and in combination with alcohol.

### INTERACTIONS:

GITSALAT is metabolised via the cytochrome P450 3A4 system, located both in the intestinal mucosa and in the liver. Medicines that are known to either inhibit or to induce this enzyme system may therefore alter the first pass (after oral administration) or the clearance of GITSALAT.

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The extent as well as the duration of interactions should be taken into account when administering GITSALAT together with the following medicines:

- **Rifampicin**  
Rifampicin strongly induces the cytochrome P450 3A4 system. Upon co-administration with rifampicin, the bioavailability of GITSALAT is distinctly reduced and thus its efficacy weakened. The use of GITSALAT in combination with rifampicin is therefore contra-indicated (see Contra-indications).

Upon co-administration of the following weak to moderate inhibitors of the cytochrome P450 3A4 system the blood pressure should be monitored and, if necessary, a reduction in the GITSALAT dose considered.

- ***Erythromycin:***  
Erythromycin is known to inhibit the cytochrome P450 3A4 mediated metabolism of other medicines. Therefore, the potential for an increase of GITSALAT plasma concentrations upon co-administration of both medicines cannot be excluded.
- ***Amprenavir, Indinavir, Nelfinavir, Ritonavir, Saquinavir:***  
A clinical study investigating the potential of an interaction between GITSALAT and amprenavir, indinavir, nelfinavir, ritonavir or saquinavir has not yet been performed. Medicines of this class are known to inhibit the cytochrome P450 3A4 system. In addition, indinavir and ritonavir have been shown to inhibit in vitro the cytochrome P450 3A4 mediated metabolism of GITSALAT. When administered together with GITSALAT, a substantial increase in plasma concentrations of GITSALAT due to a decreased first pass metabolism and a decreased elimination cannot be excluded. Upon co-administration, the blood pressure should be monitored and, if necessary, a reduction in the GITSALAT dose considered.
- ***Ketoconazole, Itraconazole, Fluconazole:***  
Medicines of this class are known to inhibit the cytochrome P450 3A4 system. When administered orally together with GITSALAT, a substantial increase in systemic bioavailability of GITSALAT due to decreased first pass metabolism cannot be excluded. Upon co-administration, the blood pressure should be monitored and, if necessary, a reduction in the GITSALAT dose considered.
- ***Fluoxetine:***  
Fluoxetine has been shown to inhibit in vitro the cytochrome P450 3A4 mediated metabolism of GITSALAT. Therefore, an increase of GITSALAT plasma concentrations upon co-administration of both medicines cannot be excluded. When fluoxetine is given together with GITSALAT, the blood pressure should be monitored and, if necessary, a reduction in the GITSALAT dose considered.
- ***Nefazodone:***  
A clinical study investigating the potential of a medicine interaction between GITSALAT and nefazodone has not yet been performed. Nefazodone is known to inhibit the cytochrome P450 3A4 mediated metabolism of other medicines. Therefore, an increase of GITSALAT plasma concentrations upon co-administration of both medicines cannot be excluded. When nefazodone is given together with GITSALAT, the blood pressure should be monitored and, if necessary, a reduction in the GITSALAT dose considered.
- ***Quinupristin/Dalfopristin:***  
Simultaneous administration of quinupristin/dalfopristin and GITSALAT may lead to increased plasma concentrations of GITSALAT. Upon co-administration of both medicines, the blood pressure should be monitored and, if necessary, a reduction of the GITSALAT dose considered.
- ***Valproic acid:***

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As valproic acid has been shown to increase the plasma concentrations of the structurally similar calcium channel blocker nimodipine due to enzyme inhibition, an increase in GITSALAT plasma concentrations and hence an increase in efficacy cannot be excluded.

- *Cimetidine:*  
Due to its inhibition of cytochrome P450 3A4, cimetidine elevates the plasma concentrations of GITSALAT and may potentiate the antihypertensive effect.
- *Cisapride:*  
Simultaneous administration of cisapride and GITSALAT may lead to increased plasma concentrations of GITSALAT. Upon co-administration of both medicines, the blood pressure should be monitored and, if necessary, a reduction of the GITSALAT dose considered.
- *Phenytoin:*  
Phenytoin induces the cytochrome P450 3A4 system. Upon co-administration with phenytoin, the bioavailability of GITSALAT is reduced and thus its efficacy weakened. When both medicines are concomitantly administered, the clinical response to GITSALAT should be monitored and, if necessary, an increase of the GITSALAT dose considered.  
If the dose of GITSALAT is increased during co-administration of both medicines, a reduction of the GITSALAT dose should be considered when the treatment with phenytoin is discontinued.
- *Carbamazepine:*  
As carbamazepine has been shown to reduce the plasma concentrations of the structurally similar calcium channel blocker nimodipine due to enzyme induction, a decrease in GITSALAT plasma concentrations and hence a decrease in efficacy cannot be excluded.
- *Phenobarbitone:*  
As phenobarbitone has been shown to reduce the plasma concentrations of the structurally similar calcium channel blocker nimodipine due to enzyme induction, a decrease in GITSALAT plasma concentrations and hence a decrease in efficacy cannot be excluded.

### Effects of GITSALAT on other medicines:

GITSALAT may exacerbate the blood pressure lowering effect of concomitantly applied antihypertensives, such as:

- diuretics
- $\beta$ -blockers
- ACE-inhibitors
- Angiotensin receptor blockers
- other calcium channel blockers
- $\alpha$ -adrenergic blocking agents
- PDE5 inhibitors
- A-methyldopa.

When GITSALAT is administered simultaneously with  $\beta$ -receptor blockers the patient should be carefully monitored, since fairly severe hypotension may occur. Deterioration of heart failure is also known to develop in isolated cases.

- *Digoxin:*  
The simultaneous administration of GITSALAT and digoxin may lead to reduced digoxin clearance and hence an increase in plasma concentrations of digoxin. The patient should therefore be checked for symptoms of digoxin overdosage as a precaution and, if necessary, the glycoside dose should be reduced taking into account the plasma concentration of digoxin.

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- **Quinidine:**  
When GITSALAT and quinidine were administered simultaneously, lowered quinidine or, after discontinuation of GITSALAT, a distinct increase in plasma concentrations of quinidine has been observed. For this reason, when GITSALAT is either additionally administered or discontinued, monitoring of the quinidine plasma concentration and, if necessary, adjustment of the quinidine dose is recommended.  
  
Increased plasma concentrations of GITSALAT have been reported upon co-administration of both medicines, while others did not observe an alteration in the pharmacokinetics of GITSALAT. Therefore, the blood pressure should be carefully monitored if quinidine is added to an existing therapy with GITSALAT. If necessary, the dose of GITSALAT should be decreased.
  - **Tacrolimus:**  
Tacrolimus has been shown to be metabolised via the cytochrome P450 3A4 system. Upon co-administration of tacrolimus and GITSALAT, the tacrolimus plasma concentrations should be monitored and, if necessary, a reduction in the tacrolimus dose considered.
  - **Diltiazem:**  
Diltiazem decreases the clearance of GITSALAT. GITSALAT increases the bioavailability and decreases the clearance of diltiazem. The combination of both medicines should be administered with caution and a reduction of both doses may be considered.
- Medicine - food interactions:**
- **Grapefruit Juice:**  
Grapefruit juice inhibits the metabolism of GITSALAT. Administration of GITSALAT together with grapefruit juice thus results in elevated plasma concentrations of GITSALAT due to a decreased first pass metabolism in the GIT. As a consequence, the blood pressure lowering effect may be increased (see Warnings and Special precautions).

### Other forms of interactions:

- GITSALAT may cause falsely increased spectrophotometric values of urinary vanillyl-mandelic acid. However, measurement with HPLC is unaffected.

### PREGNANCY AND LACTATION:

GITSALAT is contra-indicated in pregnancy, and during lactation (see Contraindications).

Mothers taking GITSALAT should not breastfeed their babies, and mothers breastfeeding their babies should not take GITSALAT as nifedipine passes into breastmilk.

Co-administration of GITSALAT with i.v. magnesium sulfate may cause an excessive fall in blood pressure which could harm both mother and foetus.

Preclinical and animal studies have shown a variety of embryotoxic, placentotoxic and fetotoxic effects when administered during any stage of pregnancy and decreased neonatal survival after birth. Only a life-threatening hypertensive crisis of the mother in the late trimester of pregnancy, who is not responding to any other treatment, may override this contra-indication.

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### DOSAGE AND DIRECTIONS FOR USE:

#### *Method of administration:*

Oral use

**The tablets should be swallowed whole with a glass of fluid; under no circumstances should they be bitten, chewed or broken up. Grapefruit juice is to be avoided.**

The tablets should be taken at approximately 24 hour intervals, i.e., at the same time each day, preferably during the morning. GITSALAT may be taken irrespective of mealtimes.

The recommended initial dose is one 30 mg tablet once daily. A starting dose of 20 mg may be considered when medically indicated, such as the elderly, may benefit from initiation of therapy at 20 mg once daily. If necessary, the dosage can be increased according to individual requirements up to a maximum of 90 mg once daily.

In general, titration steps should proceed over a 7 to 14 day period so that the response to each dose level can be assessed before proceeding to higher doses.

#### *Additional information on special populations:*

##### *Children and adolescents:*

The safety and efficacy of GITSALAT in children below 18 years has not been established.

##### *Geriatric patients:*

Based on pharmacokinetic data for GITSALAT no dose adaptation in elderly people above 65 years is necessary.

##### *Patients with hepatic impairment:*

Owing to the duration of action of the formulation, GITSALAT should not be administered to patients with hepatic impairment (see Contra-indications).

##### *Patients with renal impairment:*

Based on pharmacokinetic data no dosage adjustment is required in patients with renal impairment.

### SIDE EFFECTS:

Adverse drug reactions (ADRs) listed under "common" were observed with a frequency below 3 % with the exception of oedema (9, 9 %) and headache (3, 9 %).

The frequencies of ADRs reported with nifedipine-containing products are summarised in the table below. Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

Frequencies are defined as common ( $\geq 1/100$  to  $< 1/10$ ), uncommon ( $\geq 1/1,000$  to  $< 1/100$ ) and rare ( $\geq 1/10,000$  to  $< 1/1,000$ ).

System Organ Class	Common	Uncommon	Rare
<b>Immune System Disorders</b>		Allergic reaction Allergic oedema/angioedema (incl. larynx oedema*)	Pruritus Urticaria Rash
<b>Psychiatric Disorders</b>		Anxiety reactions Sleep disorders	



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System Organ Class	Common	Uncommon	Rare
<b>Nervous system disorders</b>	Headache	Vertigo Migraine Dizziness Tremor Somnolence	Paraesthesia Dysaesthesia
<b>Eye Disorders</b>	Eye pain	Visual disturbance	Amblyopia
<b>Cardiac Disorders</b>		Tachycardia Palpitations	Chest pain (angina pectoris)
<b>Vascular Disorders</b>	Oedema Vasodilation	Hypotension Syncope	
<b>Respiratory, thoracic and mediastinal disorders</b>		Nosebleed Nasal congestion	
<b>Gastrointestinal disorders</b>	Constipation	Gastrointestinal and abdominal pain Vomiting Nausea Dyspepsia Flatulence Dry mouth Gastro-oesophageal reflux	Gingival hyperplasia
<b>Hepatobiliary Disorders</b>		Transient increase in liver enzymes	
<b>Skin and subcutaneous tissue disorders</b>		Erythema	Palpable purpura
<b>Musculoskeletal and Connective Tissue Disorders</b>		Muscle cramps Joint swelling Arthralgia Myalgia	
<b>Renal and Urinary Disorders</b>		Polyuria Dysuria	
<b>Reproductive System Disorders</b>		Erectile dysfunction	
<b>General Disorders</b>	Feeling unwell	Unspecific pain Chills	

\*may result in life-threatening outcome

The ADRs identified only during the on-going postmarketing surveillance, and for which a frequency could not be estimated, are listed below:

System Organ Class	Frequency Unknown
Blood and Lymphatic system disorders	Agranulocytosis
Immune system disorders	Anaphylactic/anaphylactoid reaction
Metabolism and nutrition disorders	Hyperglycaemia
Nervous system disorders	Hypoesthesia
Respiratory, thoracic and mediastinal disorders	Dyspnoea

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System Organ Class	Frequency Unknown
Gastrointestinal disorders	Bezoar dysphagia Intestinal obstruction, Intestinal ulcer Vomiting Jaundice
Hepatobiliary disorders	Jaundice
Skin and subcutaneous tissue disorders	Toxic Epidermal Necrolysis Photosensitivity allergic reaction
Endocrine disorders	Gynaecomastia

### KNOWN SYMPTOMS OF OVERDOSAGE AND PARTICULARS OF ITS TREATMENT:

Flushing, headaches, severe hypotension, increase or decrease in heart rate, hyperglycaemia, metabolic acidosis, hypoxia, cardiogenic shock with pulmonary oedema and unconsciousness to the point of coma have been observed.

If these symptoms are observed in time, the first therapeutic measure to be considered is gastric lavage with added medicinal charcoal, if necessary, in combination with irrigation of the small intestine.

Particularly in cases of intoxication with slow-release products like GITSALAT elimination must be as complete as possible, including the small intestine, to prevent the otherwise inevitable subsequent absorption of the active substance.

Haemodialysis serves no purpose, as GITSALAT is not dialysable, but plasmapheresis is advisable (high plasma protein binding, relatively low volume of distribution).

Treatment is symptomatic and supportive.

Bradycardia heart rhythm disturbances may be treated symptomatically with  $\beta$ -sympathomimetics and in life-threatening bradycardiac disturbances of heart rhythm, temporary pacemaker therapy is advisable.

Hypotension as a result of cardiogenic shock and arterial vasodilation ~~can~~ may be treated with calcium (10 - 20 ml of a 10 % calcium gluconate solution administered slowly i.v. and repeated if necessary). As a result, the serum calcium may reach the upper normal to slightly elevated levels. If an insufficient increase in blood pressure is achieved with calcium, vasoconstricting sympathomimetics such as dopamine or norepinephrine (noradrenaline) may be administered additionally. The dosage of these medicines is determined solely by the effect obtained.

Additional liquid or volume must be administered with caution because of the danger of overloading the heart.

### IDENTIFICATION:

Gitsalat 20: Round, convex, pink coated tablet with a laser hole on one side and with no markings.

Gitsalat 30 and 60: Round, convex, pink coated tablet with a laser hole on one side and marked with "30" or "60" on the top side.

### PRESENTATION:

Blister packs composed of PP/Alu foil, PVC/ PVDC foil or PA/Al/PVC foil backed with aluminium foil containing 28 or 30 tablets packed in a cardboard carton.

### STORAGE INSTRUCTIONS:

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Store at or below 25 °C.  
Protect from light and moisture.  
Not to be removed from the outer carton until required for use.

**KEEP OUT OF REACH OF CHILDREN:**

**REGISTRATION NUMBERS:**

GITSALAT 20: 440340  
GITSALAT 30: 440341  
GITSALAT 60: 440342

**NAME AND BUSINESS ADDRESS OF THE HOLDER OF THE CERTIFICATE OF REGISTRATION:**

BAYER (PTY) LTD  
Reg. No.: 1968/011192/07  
27 Wrench Road  
ISANDO  
1609

**DATE OF PUBLICATION OF THIS PACKAGE INSERT:**

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