# $^{R_{\!x}}$ Cilnidipine & Telmisartan Tablets 20 mg + 40 mg

## CILACAR® T 20/40

Overdose Cilnidipine

PHARMACOLOGICAL PROPERTIES Mechanism of Action Cilnidipine

Pharmacodynamic Properties

## GENERIC NAME Cilnidipine and Telmisartan Tablets

QUALITATIVE AND QUANTITATIVE COMPOSITION

Each film coated tablet contains: . 20 mg 

DOSAGE FORM AND STRENGTH

### CLINICAL PARTICULARS rapeutic indicati

It is indicated for the treatment of essential hypertension.

Posology and method of administration The recommended oral dosage is 1 tablet once daily or as directed by the Physician. Method of administration: For oral use only. Patients should be advised to swallow the tablets whole with liquid and should not be chewed or crushed. To achieve the best possible results, take your dose at the same time(s) each day.

## Contraindications Aortic stenosis, advanced.

The presensitivity to cilinidipine or other calcium channel antagonists, Telmisatran is contraindicated in patients with known hypersensitivity (e.g., anaphylaxis or angioedema) to telmisartan or any other component of this product. Do not co-administer alisivitem with Telmisatran in patients with diabetes.

### Special warnings and precautions for use

Cilnidipine Careful Administration (Cilnidipine should be administered with care in the following patients.): Patients with serious hepatic dysfunction [The plasma concentration may

become elevated.] Patients with a history of serious adverse reactions to calcium antagonists. Important Precautions. A si has been reported that sudden withdrawal of a calcium antagonist caused aggravation of certain symptoms. Therefore, if the discontinuation of cilnidipine is necessary, As it has been reported that suddem withdrawal of a calcium antagonist caused aggravation of certain symptoms. Therefore, if the discontinuation of clin the dosage should be gradually decreased under close observation.
If Clinidipine is withdrawn from a daily dose of 5 mg, appropriate measures, such as replacement with other antihypertensive agents, should be taken.
Direct the patient not to discontinue this drug without physician's instructions.
<u>Effects on Ability to Drive and Operate Machine</u>; The symptoms, such as dizziness may occur because of the hypotensive action from this drug.
<u>Give warning against engaging in hazardous activities requiring alertness</u>, such as working at a height, operating machinery or driving motor vehicles.
<u>Tetai Torvini</u>

Fetal Toxicity Use of trugs that act on the renin-angiotensin system during the second and third trimesters of pregnancy reduces fetal renal function and increases fetal and neonatal morbidity and death. Resulting oligohydramnios can be associated with fetal lung hypoplasia and skeletal deformations. Potential neonatal adverse effects include skull hypoplasia, anuria, hypotension, renal failure, and death. When pregnancy is detected, discontinue Telmisartan as soon as possible

Hypotension In patients with an activated renin-anglotensin system, such as volume- or salt-depleted patients (e.g., those being treated with high doses of diuretics), symptomatic hypotension may occur after initiation of therapy with Telmisartan. Either correct this condition prior to administration of Telmisartan, or start treatment under close medical supervision with a reduced dose.

meuca supervision with a reduced dose. If hypotension dees occur, the patient should be placed in the supine position and, if necessary, given an intravenous infusion of normal saline. A transient hypotensive response is not a contraindication to further treatment, which usually can be continued without difficulty once the blood pressure has stabilized.

response is not a contraindication to further treatment, which usually can be continued without difficulty once the blood pressure has stabilized. Hyperkalemia Hyperkalemia Hyperkalemia may occur in patients on ARBs, particularly in patients with advanced renal impairment, heart failure, on renal replacement therapy, or on potassium supplements, potassium-sparing diuretics, potassium-containing salt substitutes or other drugs that increase potassium levels. Consider periodic determinations of serum electrolytes to detect possible detectrolyte inbalances, particularly in patients at risk. Impaired Hepatic Function As the majority of telmisartan at low doses and titrate slowly in these patients. Dual Blockade of the Rein-Angiotensin-Hotscorene System (RAS) Dual blockade of the Rein-Angiotensin-receptor blockers, ACE inhibitors, or aliskiren is associated with increased risks of hypotension, hyperkalemia, and changes in renal function (including acute renal failure) compared to monotherapy. The ONTARGET trial enrolled 25,620 patients > 255 years old with attreesclerotic disease or diabates with end-organ damage, randomizing them to telmisartan only, ramipril only, or the combination of telmisartan at othera englishilow storated to mobilari any additional benefit compared to monotherapy. The ONTARGET trial enrolled 25,620 patients > 255 years old with attreesclerotic disease or diabates with end-organ damage, randomizing them to telmisartan ander compared to monotherapy. Use to experience and increased indicense of renal displancemos to tobial any additional benefit compared to monotherapy. The ONTARGET trial enrolled 25,620 patients > 255 years old with attreesclerotic disease or diabates with end-organ damage, randomizing them to telmisartan andere or ramipril alone. In most patients no benefit has been associated with using two RAS inhibitors. Concernitative J, ongared with groups receiving telmisartan alone or ramipril alone. In most patients no benefit has been associated with using two RAS inhib

### Druns interactions

Drugs interactions Cilindigine Cilindigine is chiefly metabolized by the drug-metabolizing enzyme CYP3A4 and in part by CYP2C19. Precautions for co-administration (Cilindigine and the following drugs should be co-administered with care): Other anti-hypertensive drugs, Digoxin, Cimetidine, Rifampicin, Antifungal azoles (Itraconazole, Miconazole etc), Grape fruit juice.

liskiren: Do not co-administer aliskiren with Telmisartan in patients with diabetes. Avoid use of aliskiren with Telmisartan in patients with renal impairment (GFR<60 mL/

min). Digoxin: When Telmisartan was co-administered with digoxin, median increases in digoxin peak plasma concentration (49%) and in trough concentration (20%) were observed. Therefore, monitor digoxin levels when initiating, adjusting, and discontinuing telmisartan for the purpose of keeping the digoxin level within the therapeutic range. Lithium: Reversible increases in serum lithium concentrations and toxicity have been reported during concontiant administration of lithium with angiotensin II receptor antagonists including Telmistant. Therefore, monitor serum lithium levels during concomitant use. Non-Steroidal Anti-Inflammatory Agents including Selective Cyclooxygenase-2 Inhibitors; (DX-2 Inhibitors; Inpatients who are elderty, volume-depleted (including telmisartan, diuretic therapy), or with compromised renal function, co-administration of NSAIDs, including selective COX-2 inhibitors, with angiotensin II receptor antagonists, including publicating possible acute renal failure. These effects are usually reversible. Monitor renal function predically in patients receiving telmisartan, may be attenuated by NSAIDs including selective COX-2 inhibitors. patients receiving telmisartan and t including selective COX-2 inhibitors

## Use in Special population Cilnidipine

Computer Programme: Dosage should not be given to pregnant ladies or Expecting women. It is reported that on the Experiments on animals (Rats), Fetal Toxicity and postponement of pregnancy period & Delivery was observed.

Lactation-It is advisable to avoid dosage to feeding mothers, in case of unavoidable reason, feeding to babies should be stopped. In case of Experiments on animals, it is observed that the dosage transfers to feeding milk.

remail impairment: Repeated oral administration of Cilnidipine at a dose of 10 mg once a day for 7 days in patients with impaired renal function caused no differences in the pharmacokinetic profile compared with that in patients with normal renal function. Pediatric use:

The safety of Cilnidipine in pediatric patients has not been established (no clinical experience).

The safety of Clinicipne in pediatric patients has not used established to similar a statistic patients: Clinicipine should be administered carefully under close observation of the patient's condition, taking such measures as starting with a lower dose (e.g. 5 mg). Use in the Elderly is generally acknowledged that the excessive hypotensive action should be avoided in the elderly. Telmisartan Decarage. Elderly is generally acknowledge that the excessive hypotensive action arous to excession and the presence of the entry of the entry of the excessive insponence of the excessive insponence of the excession of t

Pharmacokinetic properties Cilnidipine

Cimulphe Plasma Drug Levels: When a single dose of clinidipine 5 mg, 10 mg or 20 mg clinidipine was orally administered to 6 healthy male volunteers, the C<sub>um</sub> was found to be 4.7 ng/mL, 5.4 ng/mL and 15.7 ng/mL, respectively and the AUC<sub>ext</sub> to be 23.7ng-hr/mL, 27.5ng-hr/mL and 60.1ng-hr/mL, respectively. Thus, both parameters increased in a dose dependent manner. When a single dose of clinidipine 10 mg was repeatedly administered once a day to 6 healthy male volunteers, pharmacokinetic parameters of clinidipine were indicated

In addition to the adverse events in the table, the following events occurred at a rate of ≥1% but were at least as frequent in the placebo group: influenza-like symptoms, dyspepsia, myalgia, urinary tract infection, abdominal pain, headache, dizziness, pain, fatigue, couphing, hypertension, chest pain, nausea, and peripheral edema. Discontinuation of therapy because of adverse events was required in 2.8% of 1455 patients treated with Telmisariant tablets and 6.1% of 380 placebo patients in placebo-controlled clinical trials. The incidence of adverse events was not dose-related and did not correlate with gender, age, or race of patients. The incidence of cough occurring with telmisarian in 6 placebo-controlled trials was identical to that noted for placebo-treated patients (16.%). In addition to those listed above, adverse events that occurred in more than 0.3% of 3500 patients treated with Telmisarian anotherapy in controlled or open trials are listed below. It cannot be determined whether these events were cursual viralent to Telmisarian tablets.

In more than 0.3% of 3500 patients treated with leimsartan monotherapy in controlled or open trials are listed below. It cannot be determined whether these events were causally related to Telmisartan tablets: Autonomic Nervous Systemr impotence, increased sweating, flushing, Body as a Whole: allergy, fever, leg pain, malaise; Cardiovascular: patplation, dependent edema, angina pectoris, tachycardia, leg edema, anhormat ECG. (SCN: insomnia. somolence, migraine, vertiop, parestinskai, involuntary muscle contractions, hypoesthesia; Gastrointestinal flatulence, constipation, gastritis, vomiting, dry mouth, hemorrhoids, gastroenteritis, enteritis, gastroesphageal reflux, toothache, nonspecific gastrointestinal disorders; Metabolic: gout, hypercholesterolemia, diabetes mellitus; Musculoskeletal: arthritis, arthralgia, leg cramps; Psychiatric: anxiety, depression, nervousness; Resistance Mechanism: inclication, tingal infection, abple case, otitis media; Respiratory: asthma, bronchitis, finitis, dyspnea, epistaxis, Sin: dermatifis; resh, eczema, pruritus; Urinary: michuriton frequency, cystitis; Vascular: cerebrovascular disorder; and Special Senses: abrormal vision, conjunctivitis, tinnitus, earache. Cirrinal Laboratory Findings In placeho-contoled clinical studies, a single case of angioedema was reported (among a total of 3781 patients treated).

Clinical Laboratory Findings In placebo-controlled clinical trials, clinically relevant changes in standard laboratory test parameters were rarely associated with administration of Telmisartan tablets. *Hemoglobin:* A greater than 2 g/dL decrease in hemoglobin was observed in 0.8% telmisartan patients compared with 0.3% placebo patients. No patients discontinued therapy because of anemia. *Caretainine:* A 0.5 mg/dL rise or greater in creatinine was observed in 0.4% telmisartan patients compared with 0.3% placebo patients. No telmisartan-treated patient discontinued therapy because of increases in creatinine and blood urea nitrogen. *Liver Enzymes:* Occasional elevations of liver charmistrias occurred and with telmisartan; all marked elevations occurred at a higher frequency with placebo. No telmisartan-treated patients discontinued therapy because of abnormal hepatic function.

Identifies that retrated patients documented through seconds of standard patients and the second transfer second through seconds of standard patients documents and serious adverse events leading to discontinuation and serious adverse events were recorded in subsequent studies of telemisartan for adverse events were 8.4% on telmisartan and 7.6% on placebo. The only serious adverse events at least 1% more common on telmisartan than placebo were intermittent claudication (7% vs 6%) and skin ulcer (3% vs 2%).

Clinidipine Overdosage of Clinidipine may cause excessive reduction in blood pressure. If reduction in blood pressure is remarkable, appropriate measures such as lifting lower extremities, fluid therapy and administration of vasopressors should be taken. Hemodialytical removal of clinidipine is not effective because of its high rate of protein-binding. Telmisartan Limited data are available with regard to overdosage in humans. The most likely manifestation of overdosage with Telmisartan tablets would be hypotension, dizziness and tachycardic is bradycardia could occur from parasympathetic (vaga) stimulation. If symptomatic hypotension should occur, supportive treatment should be instituted. Telmisartan is not removed by hemofiltration and is not dialyzable.

Communitie Experimental data suggest that clinidipine binds to the dihydropyridine binding sites of the L-type voltage dependent calcium channel and inhibits Ca<sup>2+</sup> influx across the cell Experimental data suggest that clinicipine binds to the dinydrophytiolite binding sites of the L-type voltage dependent calcium channel and innities Ca<sup>24</sup> intrux across the cell membranes of vascular smooth muscle eils via this channel (rabbits in vitro). Consequently, vascular smooth muscle eils via this channel (rabbits in vitro). Clinicipine initibits Ca<sup>24</sup> intrux via N-type voltage dependent calcium channels in the sympathetic nerve cell membrane. The initibition of Ca<sup>24</sup> intrux via N-type voltage dependent calcium channel was observed over a similar range of drug concentrations to those inhibiting L-type voltage dependent calcium channels in thibited. Clinicipine initibiting L-type voltage dependent calcium channels in thibited. Similar in vitro, souther souther the sympathetic nerve terminals would be thibited. Clinicipine is considered to suppress the reflex increase in heart rate which may be mediated by sympathetic activation after blood pressure reduction and to inhibit stress-related hypertension through this mechanism.

be mediated by sympathetic activation after blood pressure reduction and to inhibit stress-related hypertension through this mechanism **Telmisartan** Angiotensin II is formed from angiotensin I in a reaction catalyzed by angiotensin-converting enzyme (ACE, kininase II), Angiotensin II is the principal pressor agent of the renin-angiotensin H fetchs that include vasconstriction, stimulation of synthesis and release of aldosterone, cardiac stimulation, and renal reabsorption of sodium. Telmisartan blocks the vasconstrictor and aldosterone-secreting effects of angiotensin II by selectively blocking the binding of angiotensin II to the AT1 receptor in many tissues, such as vascular smooth muscle and the adrenal glad. Its action is therefore independent of the pathways for angiotensin II synthesis. There is also an AT2 receptor found in many tissues, but AT2 is not known to be associated with cardiovascular homestasis. Telmisartan has much greater affinity (>3.000 fold) for the AT1 receptor than for the AT2 receptor. Blockade of the renin-angiotensin system with ACE inhibitors, which inhibit the biosynthesis of angiotensin II synthesis. There is also used in the treatment of hypertension. ACE inhibitors also inhibit ACE (kininase II), it does not affect the response to bradykinin, a reaction also catalyzed by ACE. Because telmisartan does not hinbit ACE (kininase II), it does not affect the response to bradykinin. Whether this difference has clinical relevance is not yet Rown. Telmisartan does not bind to or block other hormone receptors or ion channels known to be important in cardiovascular homestin II receptor inhibits the negative regulatory. Bedockade of angiotensin II on renin secretion, but the resulting increased plasma renin activity and angiotensin II circulating levels do not overcome the effect of telmisartan on blood pressure.

Pharmacodynamic Properties Clinidipine Antihypertensive Effect. In various hypertensive animal models (spontaneously hypertensive rats, renal hypertensive rats and dogs, DOCA salt hypertensive rats, and stroke-prone spontaneously hypertensive rats, a single oral does of clinidipine showed a gradual and long-tasting hypotensive action that was dose-dependent at 1 mg/kg or more: In contrast, it showed a weak hypotensive action in normolensive rats. The duration of the action was not prolonged by an excessive dosage. In renal hypertensive dogs, clinidipine showed an additive effect when co-administered with a **o**-blocker or an anglotensin-converting enzyme (ACE) inhibitor. In stroke-prone spontaneously hypertensive rats and renally hypertensive dogs, repeated oral doses of clinidipine had a stable hypotensive action which did not show attenuation. Discontinuation of clinidipine did not cause a rebound in blood pressure. In conscious ad spontaneously hypertensive rats, and renally hypertensive dogs, repeated oral doses of clinidipine did not increase the plasma noradrenaline level during hypotension, nor did it cause a significant decrease, which an attenergic blocker (guenalthidine sultate) did. Clinidipine did not cause or hostatic thypotension, although a agnificant doses of clinidipine showed an hypotensive action that maintained for 24 hours and was still evident early in the next morning. Power spectral analysis of the R-h intervals of 24 hours and was still evident early in the next response to the reduction of blood pressure. Inhibitory Action on Stress-induced Pressor Response: In conscious and unrestrained spontaneously hypertensive rats, clinidipine ishohed by cold stress, Clinidipine also inhibited the elevation of blood pressure and plasma norepinephrine levels induced by cold stress. Clinidipine also inhibited the elevation of blood pressure in the elevation of blood pressure. In halthy adult nale volunteers whose blood pressure was elevated by 220% in cold stress test, clinidipine sup

stress. Inhibitory Action on Sympathetic Stimulation-Induced Pressor Response: In pithed spontaneously hypertensive rats, cilinidipine suppressed the elevation of blood pressure induced by electrical sympathetic Stimulation-Induced Pressor Response: In pithed spontaneously hypertensive rats, cilinidipine suppressed the elevation of blood pressure induced by electrical sympathetic stimulation. In Isolated and perfused mesenteric arterial vascular preparation in spontaneously hypertensive rats, cilinidipine also inhibited the release of norepinephrine induced by electrical sympathetic stimulation. Effect on Carebral Circulation: In spontaneously hypertensive rats, cilinidipine did not decrease crebral blood flow weni if the dose which decreases blood pressure by 30-40% in rats was administered. The auto-regulation of cerebral blood flow was astisfactorily maintained while blood pressure was decreased. In hypertensive patients complicated by cerebrovascular disease, the cerebral blood flow was maintained while blood pressure was decreased. In hypertensive patients complicated by cerebrovascular disease, the cerebral blood flow was maintained while blood pressure was decreased. In a was darked *Function*: In dogs, cilinidipine decreased heart rate and myocardial contractility at higher dose than that inducing an increased flow of arterial blood. In anesthetized open chest dogs, cilinidipine decreased the myocardial oxygen consumption at dose inducing hypotension. At the time, it neither caused tachycardia nor affected cardiac contractility.

In anesthetized open chest dogs, ciliidipine decreased the myocardial oxygen consumption at dose inducing hypotension. At the time, it neither caused tachycardia nor affected cardiac contractility. In patients with essential hypotension, ciliidipine did not affect heart rate while the blood pressure was decreased and in patients with abnormal cardiothoracic ratio (CTR), it improved the CTR. Effects on Renal Function: In anesthetized spontaneously hypertensive rats, ciliidipine increased the urinary volume, renal blood flow and glomerular filtration rate at the dose inducing hypotension. Ciliidipine also increased the urinary volume, renal blood flow and glomerular filtration rate, when the renal function with essential hypertension, cilindipine did not affect rata function withe the blood pressure was decreased. Effect on Renative sential hypertension, cilindipine did not affect renal function while the blood pressure was decreased. Effect on Cardiovascular Disturbance Associated with Hypertension: In stroke-prone spontaneously hypertensive rats, a single daily dose of cilindipine suppressed the appearance of stroke and improved the survival rate. In addition, it lessened cardiac hypertrophy (increased heart weight), thickening of the ventricular wall, myocardial fibrosis and lessons in the kidney. Moreover, it depressed media theoreman value and decreased calcium content in the aorta. In patients with essential hypertension, cilindipine decreased the atherosclerotic index and serum lipid peroxide.

when a single code of commonline to my was repeatedly administrated once a usy to orienting more connects, printmetodiment as follows: The plasma concentration reached a steady-state from Day 4 of the administration and there was no evidence of the accumulation Metabolism and Excretion:

Metabolism and Excretion: From the metabolites identified in the plasma and urine of healthy male volunteers, it is considered that the major route of clinidipine metabolism is demethylation of the methoxyethyl group followed by hydrolysis of the cinnamyl ester and oxidation of the dihydropyridime ring. It is considered that CYP3A4 is mainly involved and CYP2C19 is partly involved in the demethylation of the methoxyethyl group (in vitro). The calcium channel blocking action of the metabolite with the demethylated methoxyethyl group was only 1/00 of that of the parent compound (in rabbits). When a single oral dose of clinidipine 10 mg was repeatedly administered to healthy male volunteers once a day for 7 days, no unchanged compound of clinidipine but 5.2% of the dose was excreted in the unice as metabolites. (The approved administration of clinidipine is orally once a day after breakfast.) An *in vitro* experiment showed that clinidipine was 99.3% bound to human serum protein.

Telmisartan Absorption: Following oral administration, peak concentrations (C<sub>ma</sub>) of telmisartan are reached in 0.5 to 1 hour after dosing. Food slightly reduces the bioavailability of telmisartan, with a reduction in the area under the plasma concentration-time curve (AUC) of about 6% with the 40 mg tablet and about 20% after a 160 mg dose. The absolute bioavailability of telmisartan is dose dependent. At 40 mg and 160 mg, the bioavailability was 42% and 58%, respectively. The pharmacokinetics of orally administered telmisartan are nonlinear over the dose range 20 mg to 160 mg, with greater than proportional increases of plasma concentrations of telmisartan with nore daily dosing are about 10% to 25% of peak plasma concentrations. Telmisartan has an accumulation index in plasma concentrations of telmisartan with nore daily dosing are about 10% to 25% of peak plasma concentrations. Telmisartan has an accumulation index in plasma of 1.5 to 2.0 upon repeated once daily dosing. *Distribution* **16** telmisartan is hightwome out to distribution for telmisartan is approximately 500 liters inclating additional tissue binding. *Metabolism* and *Elimination* Ali-14/a *4*-14-beled elimisartan, most of the administreted od 9.5 (7%) was eliminated unchanged in fecs via biliary excretion; only minute amounts were found in the urine (0.91% and 0.40% of total radioactivity, respectively). Telmisartan is metabolized by conjugation to form a pharmacologically inactive acyl glucuronide; the glucuronide of the parent compound is the only metabolism and or ine. After a single dose, the glucuronide represents approximately 11% of the measured radioactivity in plasma. The cytochrome P430 isonegress are not involved in the metabolism of telmisartan. Total plasma clearance of telmisartan is sa00 mL/min. Terminal half-life and total clearance appear to be independent of dose.

NONCLINICAL PROPERTIES Carcinogenesis, Mutagenesis, Impairment of Fertility Carcinogenesis, Cilnidipine No data available.

Telmisartan There was no evidence of carcinogenicity when telmisartan was administered in the diet to mice and rats for up to 2 years. The highest doses administered to mice (1000 mg/kg/day) and rats (100 mg/kg/day) are, on a mg/m<sup>2</sup> basis, about 59 and 13 times, respectively, the maximum recommended human dose (MRHD) of telmisartan. These same doses have been shown to provide average systemic exposures to telmisartan >100 times and >25 times, respectively, the systemic exposure in humans receiving the same doses have been shown to provide average systemic exposures to telmisartan >100 times and >25 times, respectively. The systemic exposure in humans receiving the same doses have been shown to provide average systemic exposures to telmisartan >100 times and >25 times, respectively. The systemic exposure in humans receiving the same doses have been shown to provide average systemic exposures to telmisartan >100 times and >25 times, respectively. The systemic exposure in humans receiving the same dose that the systemic exposure in the systemic exposure to telmisartan =100 times and >25 times, respectively. The systemic exposure in humans receiving the systemic exposure in the systemic exposure to telmisartan =100 times and >25 times, respectively. The systemic exposure in the systemic exposure to telmisartan =100 times and >25 times, respectively. The systemic exposure in the systemic exposure to telmisartan =100 times and >25 times, respectively. The systemic exposure to telmisartan =100 times and >25 times, respectively. The systemic exposure to telmisartan =100 times and >25 times, respectively. The systemic exposure to telmisartan =100 times and >25 times, respectively. The systemic exposure to telmisartan =100 times and >25 times, respectively. The systemic exposure to telmisartan =100 times and =25 times, respectively. The systemic exposure to telmisartan =100 times and =25 times, respectively. The systemic exposure to telmisartan =100 times and =25 times, respectively. The systemic exposure to tel aame boose were over the spectrum of the provide arrange systemic explosites or terminant in a tocking and the provide arrange systemic explosites for terminant in the provide arrange systemic explosites in terminant techniques and the provide arrange systemic explosites in terminant techniques and the provide arrange systemic explosites are terminant techniques and the provide arrange systemic explosites are terminant techniques and the provide arrange systemic explosites are terminant techniques and terminant techniques are the provide arrange systemic explosites are terminant techniques and terminant techniques and terminant techniques are arrange arrange arrange are transferred and terminant techniques are not and to provide arrange arrange arrange and terminant techniques are noted at 100 mg/kg/dg (the highest dose administred), about 13 times, on a mg/mg basis, the MHHD of terminant are the MHHD (80 mg/dg).

Hepatic Insufficiency Monitor carefully and uptitrate slowly in patients with biliary obstructive disorders or hepatic insufficiency.

Effects on the Ability to Drive and Use Machines There are no reported effects of the drug on the ability to drive or handle machinery.

## If oliguria or hypotension occurs, support blood pressure and renal perfusion. Exchange transfusions or dialysis may be required as a means of reversing hypotension and/ or substituting for disordered renal function. Data

Data Animal Data No teratogenic effects were observed when telmisartan was administered to pregnant rats at oral doses of up to 50 mg/kg/day and to pregnant rabbits at oral doses up to 45 mg/kg/day. In rabbits, embrolethality associated with maternal toxicity (reduced body weight gain and food consumption) was observed at 45 mg/ kg/day [about 12 times the maximum recommended human dose (MRHD) of 80 mg on a mg/m2 basis]. In rats, maternally toxic (reduction in body weight gain and food consumption) telmisartan doses of 15 mg/kg/day (about 1.9 times the MRHD on a mg/m2 basis). A minimistered during late gastion and lactation, were observed to produce adverse effects in neonates, including reduced viability, low birth weight, delayed maturation, and decreased weight gain. The no-observed-effect doses for developmental toxicity in rats and rabbits, 5 and 15 mg/kg/day, respectively, are about 0.64 and 3.7 times, on a mg/m2 basis, the maximum recommended human dose of telmisartan (80 mg/day).

Lactation Risk Summary There is no information regarding the presence of telmisartan in human milk, the effects on the breastfed infant, or the effects on milk production. Telmisartan is present in the milk of lactating rats (see Data). Because of the potential for serious adverse reactions in the breastfed infant including hypotension, hyperkalemia and renal impairment, advise a nursing woman not to breastfeed during treatment with Telmisartan. Data Telmisartan was present in the milk of lactating rats at concentrations 1.5 to 2 times those found in plasma from 4 to 8 hours after administration.

Pediatric Use Safety and effectiveness in pediatric patients have not been established. Neonates with a history of in utero exposure to Telmisartan If oliguria or hypotension occurs, suppor blood pressure and renal perfusion. Exchange transfusions or dialysis may be required as a means of reversing hypotension and/or substituting for disordered renal function

Gertain Cose Of the total number of patients receiving Telmisartan in hypertension clinical studies, 551 (19%) were 65 to 74 years of age and 130 (4%) were 75 years or older. No overall differences in effectiveness and safety were observed in these patients compared to younger patients and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. Of the total number of patients receiving Telinistant in the cardiovascular risk reduction study (ONTARGET), the percentage of patients 265 to < 75 years of age was 42%; 15% of patients were 275 years of Allo overall differences in effectiveness and safety were observed in these patients compared to younger patients and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

Undesirable effects Cinicipine (1) Clinical significant adverse reactions: + Hepatic function disorder and jaundice accompanied with increased AST (GOT), ALT (GPT) and **e**-GTP may occur. Therefore, close observation should be made, and if any

The pair initiation as and particle accompanies with micessed AST (001); Ref. (011) and Port may occur, memory, case observation should be made, and in a admortality is observed, appropriate measures, such as discontinuation of clinifolyme, should be taken.
Thrombocytopenia (incidence: <0.1 %): Since thrombocytopenia may occur, close observation should be made, and if any abnormality is observed, appropriate measures, such as discontinuation of clinifolyme, should be taken.</li>
Thrombocytopenia (incidence: <0.1 %): Since thrombocytopenia may occur, close observation should be made, and if any abnormality is observed, appropriate measus such as discontinuation of clinifolyme.</li>

(2) Other adverse reactions – If any of the following adverse reactions occur, appropriate measures should be taken depending on the symptoms.

	Less than 0.1 ~ 5%	Less than 0.1%	Frequency unknown
Hepatic	Increase in AST(GOT), ALT(GPT), LDH etc	ALP increased	
Renal	Increase in Creatinine or Urea Nitrogen, Urinary Protein positive	Urine Sediment present	
Psychoneurological	Headache, Headache dull, Dizziness, Dizziness on standing up, Shoulder muscle stiffness	Sleepiness,Insomnia, Tremor finger, Amnesia	Numbness
Cardiovascular	Flushed face, Palpitation, Feeling hot, ECG abnormal (ST depressed, inverted T waves), Decrease in blood pressure	Chest pain, cardiothoracic ratio increased, tachycardia, AV block, feeling cold	Extrasystole
Gastrointestinal	Nausea, Vomiting, Abdominal pain	Constipation, bloating, thirst, gingival hypertrophy, heartburn, diarrhea	
Hypersensitivity	Rash	Redness, Itching	Photosensitivity
Hematologic	Increase or decrease in WBC, Neutrophil, Hemoglobin	Increase or decrease in RBC, Hematocrit, Eosinophil, Lymphocytes	
Other	Oedema (Face, Lower leg etc), General Malaise, pollakiuria, Increase in serum cholesterol, Increase or decrease in CK (CPK), Uric acid, Serum potassium, and Serum phosphorus	Feeling of weakness, gastrocnemius muscle cramps, periophthalmic dryness, ocular hyperemia and feeling of irritation, dysgeusia, urine sugar positive, increase or decrease in fasting blood sugar, total protein, serum Ca and CRP, cough	Tinnitus

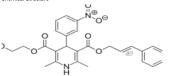
Telmisartan The following adverse reaction is described elsewhere in labeling:

Ine rolowing adverse reaction is described elsewhere in labeling: - Renal dystunction upon use with ramipnil Clinical Trails Experience Because clinical studies are conducted under widely varying conditions, adverse reactions rates observed in the clinical studies of a drug cannot be directly compared to rates in the clinical studies are conducted under widely varying conditions, adverse reactions rates observed in the clinical studies of a drug cannot be directly compared to rates in the clinical studies of a onther drug and may not reflect the rates observed in practice. Hypertension Telmisartan has been evaluated for safety in more than 3700 patients, including 1900 treated for over 6 months and more than 1300 for over one year. Adverse experiences have generally been mild and transient in nature and have infrequently required discontinuation of therapy. In placebo-controlled trials involving 1041 patients treated with placebo. Adverse events doess of Telmisartan (20 to 160 mg) montherapy for up to 12 weeks, the overall incidence of adverse events was similar to that in patients treated with placebo. Adverse events occurring at an incidence of ≥1% in platents treated with Placebo, respective of their causal association, are presented in Table 1. Table 1 Adverse Events Occurring at an Incidence of ≥1% in Patients Treated with placebo. Adverse therates treated with Placebo

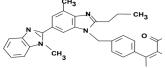
	Telmisartan n=1455	Placebo n=380
	%	%
Upper respiratory tract infection	7	6
Back pain	3	1
Sinusitis	3	2
Diarrhea	3	2
Pharyngitis	1	0

DESCRIPTION This product (Clinidipine/Telmisartan Tablet) is a fixed dose combination and contains cilnidipine and telmisartan as active ingredient. It is indicated for the treatment of s produci (c ential hyper

Cilnidipine is a novel dihydropyridine calcium antagonist and its calcium antagonistic activity is lasting longer than those of Nifedipine and Nicardipine. Molecular Formula – C<sub>27</sub>H<sub>28</sub>N<sub>2</sub>O Molecular Weight – 492.5 Chemical Structure -



Telmisartan is a non-peptide angiotensin II receptor (type AT1) antagonist Molecular Formula – C<sub>33</sub>H<sub>30</sub>N<sub>4</sub>O<sub>2</sub> Molecular Weight – 514.6 Chemical Structure –



### PHARMACEUTICAL PARTICULARS Incompatibilities

None stated.

Shelf-life

## Packaging information Blister of 15 tablets

### Storage and handing instructions Store below 30°C

PATIENT COUNSELLING INFORMATION Read all of this leaflet carefully before you start taking this medicine because it contains important information for you. Keep this leaflet. You may need to read it again. If you have any further questions, ask your doctor, pharmacist or nurse.

- If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet.



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Note: This prescribing information is applicable for India Market only

### DATE OF REVISION

Feb 2025