^R Cilnidipine, Telmisartan & Metoprolol Succinate (ER) Tablets

CILACAR®-TM 25/50

WARNING: AVOID USE IN PREGNANCY, ISCHEMIC HEART DISEASE

When pregnancy is detected, discontinue tablets as soon as possible. Drugs that act directly on the renin-angiotensin system like Telmisartan can cause injury and even death to the developing foetus.

Following abrupt cessation of therapy with certain beta-blocking agents, exacerbations of angina pectoris and, in some cases, myocardial infarction have occurred. When discontinuing chronically administered Metoprolol Succinate Extended-Release Tablet, particularly in patients with ischemic heart disease, the dosage should be gradually reduced over a period of 1 - 2 weeks and the patient should be carefully monitored. If angina markedly worsens or acute coronary insufficiency develops, Metoprolo acucinate extended release tablet administration should be reinstated promptly, at least temporarily, and other measures appropriate for the management of unstable angina should be taken. Warn patients against interruption or discontinuation of therapy without the physician's advice. Because coronary arery disease is common and may be unrecognized, it may be prudent not to discontinue Metoprolol succinate extended release tablet therapy abruptly even in patients treated only for hypertension.

Excipientsq.s. Colours: Ferric Oxide USPNF Red & Titanium Dioxide IP

PHARMACEUTICAL FORM

THERAPEUTIC INDICATION It is indicated for the treatment of patients with uncontrolled essential hypertension and stable ischemic heart disease

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

CONTRAINDICATIONS
It is contraindicated in patients with known hypersensitivity to any of the active substance(s) or any other component of this formulation.
*Metoprolol is contraindicated in patients with: Hypotension, sinus bradycardia, second or third degree heart block, cardiogenic shock, severe peripheral arterial circulatory disorders, sick-sinus syndrome, untreated phecotromocytoma, overt cardiac failure, bradycardia (< 45 beats/minute), continuous or intermittent intoropic therapy acting through beta-receptor agonism, metabolic acidosis, decompensated cardiac failure, for 45 beats/minute), continuous or intermittent inotropic therapy acting through beta-receptor agonism, metabolic acidosis, decompensated cardiac failure, bradycardia (< 45 beats/minute), continuous or intermittent beta-blockers can occur) and related derivatives.
Metoprolol is also contraindicated in acute movembili informing and hypersensitivity to metoprolol, other beta-blockers (cross sensitivity between Metoprolor) also contraindicated in acute movembili informing and the presensitivity to metoprolol, other beta-blockers (cross sensitivity between Metoprolor) also contraindicated in acute movembili informing and the presensitivity to metoprolol, other beta-blockers (cross sensitivity between Metoprolor) and contracted in acute movembili informing action acute to the sensitivity of the sensitivity of

ancontoiled near names, severe assume or instory or severe bronchospasin and inpersensitivity or metoproton, once near-stockets (cross sensitivity detween beta-blockets can occur) and related derivatives. Metoprolo is also contraindicated in acute myocardial inferction patients with a heart rate <45 beats/innut; second- and third-degree heart block; significant first-degree heart block (PR hinter VB oc.24 sec), systolic blood pressure < 100 mm Hg; or moderate-to-severe cardiac failure. National information in the severe hypotension, haemodynamically unstable heart failure after acute myocardial infarction. * Telmisartian is contraindicated in: * Second and third trimester of pregnancy. * Biliary obstructive disorders. * Severe hepatic impairment. * The concomisant use of telmisartan with aliskiren-containing products is contraindicated in patients with diabetes mellitus or renal impairment (GFR < 60 ml/min/1.73 m2).

SPECIAL WARNINGS AND PRECAUTIONS FOR USE Warning: Fetal Toxicity Drugs that act directly on the renin-angiotensin system can cause fetal and neonatal morbidity and death when administered to pregnant women. Several dozen cases have been reported in the world literature in patients who were taking angiotensin converting enzyme inhibitors. The use of drugs that act directly on the renin-angiotensin system during the second and third trimseters of pregnancy has been associated with fetal and neonatal injury; including hypotension, neonatal skull hypoplasia, anuria, reversible or irreversible renal failure, and death. When pregnancy is detected, this product should be discontinued as soon as possible. Metonrolo

renn-angotensin system during the second and third trimesters of pregnancy has been associated with relat and neonatal injury, including hypotension, neonatal skull hypotensia, anuria, reversible or inreversible renal failure, and death. When pregnancy is detected, this product should be discontinued as soon as possible. **Metoprotol**<u>Ischemic Heart Disease</u>
Following abrupt cessation of therapy with certain beta-blocking agents, exacerbations of angina pectoris and, in some cases, myocardial infarction have occurred. When discontinuing chronically administered metoprolol succinate extended-release tablets, particularly in patients with ischemic heart disease, the dosage should be gradually reduced over a period of 1–2 weeks and the patient should be carefully monitored. If angina markedly worsens or acute coronary agriculture extended-release tablets administering divice. Because coronary artery disease is common and may be unrecognized, it may be prudent not to discontinuation of therapy without the physician's advice. Because coronary artery disease is common and may be unrecognized, it may be prudent not to discontinuation of therapy without the extended-release tablet therapy abruptly even in patients treated only for hypertension.
<u>Bronchospastic Diseases</u>
Patients with bronchospastic diseases should, in general, not receive beta-blockers. Because of its relative betal-selectivity, however, metoprolol succinate extended-release tablet thrapy builts advite, a built, a built, a built, a built, a built, a built, built bronchospastic disease tablets advited advice as tablet administered encompation do not respond to, or cannot tolerate, other mesures disease tablets and the tote betal-selectivity is not absolute, a betal-stimulating agent should be administered economitantly, and the lowest possible dose of metoprolol succinate extended-release tablets should be used.

succinate extended-release tablets should be used. Major Surgery The necessity or desirability of withdrawing beta-blocking therapy prior to major surgery is controversial; the impaired ability of the heart to respond to reflex adrenergies timuli may augment the risks of general anesthesia and surgical procedures. Metoprolol succinate extended-release tablet, like other beta-blockers, is a competitive inhibitor of beta-receptor agonists, and its effects can be reversed by administration of such agents, e.g. dobutamine or isoporteronol. However, such patients may be subject to protracted severe hypotension. Difficulty in restarting and maintaining the heart beat has also been reported with beta-blockers.

and maintaining the heart beat has also been reported with beta-blockers. Diabetes and Hypoglycemia Metoprolol succinate extended-release tablets should be used with caution in diabetic patients if a beta-blocking agent is required. Beta-blockers may mask tachycardia occurring with hypoglycemia, but other manifestations such as dizziness and sweating may not be significantly affected.

Metopholo accurring with hypoglycemia, but other manifestations such as duzzness and sweating may not be significantly an event. Thyrotaxicosis Thyrotaxicosis emanaged careful blockade may mask certain clinical signs (e.g. tachycardia) of hypothyroidism. Patients suspected of developing thyrotaxicosis should be managed careful blockade any mask certain clinical signs (e.g. tachycardia) of hypothyroidism. Patients suspected of developing thyrotaxicosis should be Peripheral Vascular Disease Beta-blockars can precipitate or aggravate symptoms of arterial insufficiency in patients with peripheral vascular disease. Caution should be exercised in such instances of the state of the sta

individuals. Calcium Channel Blockers Because of significant inotropic and chronotropic effects in patients treated with beta-blockers and calcium channel blockers of the verapamil and diltiazem type, caution should be exercised in patients treated with these agents concomitantly.

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Clinical laboratory findings may include elevated levels of serum transmittase, and any programmer and the comparison of the comparison of

exercised ouring Clinidpine use in pregnancy and lactation.
<u>Pregnancy:</u> Angiotensin II receptor antagonist should not be initiated during pregnancy. Unless continued angiotensin II receptor antagonist should be changed to alternative antihypertensive treatments which have an established safety profile for use in pregnancy. When pregnancy: When pregnancy is diagnosed, treatment with angiotensin II receptor antagonist should be started.
<u>Hepatic Ingrament</u>, Telinisartan is not to be given to patients with cholestasis, bilary obstructive disorders or severe hepatic impairment since telmisartan is mostly eliminated with mello to software the hepatic ingrament. Telmisartan should be used only with caution in patients with mild to moderate hepatic impairment.
<u>Remotive and Apperturbation</u>. There is an increased risk of severe hypotension and renal insufficiency when patients with bilateral renal artery stenosis or stenosis of the artery to a single functioning kidney are treated with medicinal products that affect the remin-angiotensin-aldosterone system.
<u>Renal impairment and kidney transplantation</u>. When Telmisartan is used in patients with impaired renal function, periodic monitoring of potassium and creatining explanation of Telmisartan, may occur in patients with oar volume and/or sodium adpleted by vigorous diructi therapy. Synthematic hypotensino, and tarrhoe or vonting. Such conditions should be corrected kelore therapy. Internst started sodium depleted by vigorous diructi therapy. Alternst with meand or sodium depleted by vigorous diructi therapy. Technst with mission advector servet is an oxperiated and therapy there is evected on the first dose of Telmisartan may occur in patients with earth who are volume and/or sodium depleted by vigorous diructi therapy. Here is no experience or volume. And there are advector therapy director starts and therapy are advector starts and therapy and treated with the second or vonting. Such conditions should be corrected before the administration of Telmisartan.

Characteristic depleted by vigorous diurcit therapy, dietary salt restriction, and diarboe or vomiting. Such conditions should be corrected before the administration of Telmisartan. *Dual blockade of the renin-angiotensin-aldosterone system (RAS):* There is evidence that the concomitant use of ACE-inhibitors, angiotensin II receptor blockers or aliskiren increases the risk of hypotension, hyperkalaemia and decreased renal function (including acute renal failure). Dual blockade of RAAS through the combined use of ACE-inhibitors, angiotensin II receptor blockers should not be used concomitantly in patients with diabetic nephropathy. In patients whose vascular tone and renal function depend predominantly on the activity of the renin-angiotensin-aldosterone system (e.g. patients with severe congestive heart failure or underlying renal disease, including renal arrey stenosis), treatment with medicinal products that affect this system such as telmisarata has been associated with acute hypotension, hyperazotaemia, oliguria, or rarely acute renal failure. Other conditions with imulation of the renin-angiotensin-aldosterone system (e.g. patients with severe congestive heart failure or underlying renal disease, including renal arrey stenosis), treatment with medicinal products that affect this system such as telmisarata has been associated with acute hypotension, hyperazotaemia, oliguria, or rarely acute renal failure. *Primary aldosteronism*, Patients with primary aldosteronism generally will not respond to antihypertensive medicinal products acting through inhibition of the renin-angiotensis restrictive hyperprise. In soft recompathy. A swith other vasodilators, special caution is indicated in patients suffering from arriv acute statis stenosis, obstructive hypertrophic cardionyopathy. *Phichetronismis* system. Therefore, the use of telmisartan is not recommended. *Aprici and mitral valve stenosis*, obstructive hypertrophic cardionyopathy. *Diabetic patients treated with insulin or antidabetics* in these patients

USE IN SPECIFIC POPULATIONS

USE IN SPECIFIC POPULATIONS
Pregnamy
The use of angiotensin II receptor antagonists is not rescommended during the first trimester of pregnancy: The use of angiotensin II receptor antagonists is
contraindicated during the second and third trimesters of pregnancy, women should immediately inform the doctor. Metoprolol has been shown
to increase post-implantation loss and decrease neonatal survival in rats at doses up to 11 times the maximum daily human dose of 450 mg, when based on
surface area. There are no adequate and well-controlled studies in pregnant women. The amount of data on the use of metoprolol nn pregnant women is limited.
The risk to the fetus/mother is unknown. Because animal reproduction studies are not always predictive of human response, this drug should be used during
pregnancy only if clearly needed.
Caution should be exercised during Clinidipine use in pregnant women. The amount of data on the use of metoprolol nn pregnant women is limited.
The risk to the fetus/mother is unknown. Because animal reproduction studies are not always predictive of human response, this drug should be used during
Clinisarian. Teratogenic Effects. Pregnancy Categories C (first trimester) and D (second and third trimesters). There are no adequate data from the use of
Telmisarian in pregnant women. Studies in animals have shown reproductive toxicity.
Infants whose mothers have taken angiotensin II receptor antagonists should be closely observed for hypotension.
Use of drugs that act on the renin-angiotensin system during the second and third trimesters of pregnancy reduces fetal deformations. Potential neonatal adverse
effects include skull hypoplasia, anuria, hypotension, renal failure, and death. When pregnancy used is diagnosed, treatment with angiotensin II receptor antagonists
should be stored.
Laction
Metoprolol is excreted in breast milk in very small quantities. An infant consuming 1 liter of breast milk daily would receive a dose of less than 1 mg of the drug.

Lactation Metoprolo is excreted in breast milk in very small quantities. An infant consuming 1 liter of breast milk daily would receive a dose of less than 1 mg of the drug. It is not known whether clinicipine is distributed in human breast milk or not However, caution should be exercised during clinicipine use in lactation. Because no information is available regarding the use of Telmisartan during breast-feeding. Telmisartan is not recommended and alternative treatments with better stabilished safety profiles during breast feeding are preferable, especially while nursing a newborn or preterm infant.

Pediatric Use Safety and effectiveness in pediatric patients have not been established.

Safety and encourses an pointer particular definition of the second seco

from younger subjects in their response to metoprolol. Other reported clinical experience in courty approximate parameters in programmer parameters of a second programmer parameters. 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 response from 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. No dose adjustment of telmisartan is necessary for elderly patients.

adjustment of telmisartan is necessary for elderly patients. EFFECTS ON ABILITY TO DRIVE AND USE MACHINES When driving vehicles or operating machinery it should be taken into account that dizziness or drowsiness may occasionally occur when taking antihypertensive therapy such as Telmisartan. There's no report of cilnidipine's effect on the ability to drive and use machines. However, cilnidipine can have minor or moderate influence on the ability to drive and use machines. If patients taking cilnidipine suffer from dizziness, headache or nausea the ability to react may be impaired. Caution is recommended especially at the start of retartment. As with all beta-blockers, metoprolol may affect patients' ability to drive and operate machinery. It should be taken into account that occasionally dizziness or fatigue may occur. Patients baould be warned accordingly. These effects may possibly be enhanced in case of concomitant ingestion of alcohol or after changing to another medicinal product.

UNDESIRABLE EFFECTS Metonrolo¹

Metoprotol The following are the adverse reactions: Worsening angina or myocardial infarction, worsening heart failure, and worsening AV block.

The tolowing are the adverse reactions, worsening angular or myocatular infraction, worsening near rainite, and worsening Av Orick. Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice. The adverse reaction information from clinical trials does, however, provide a basis for identifying the adverse events that appear to be related to drug use and for approximating rates. *Hypertension and Anguin: Most adverse reactions* have been mild and transient. The most common (~2%) adverse reactions are tiredness, dizziness, depression, diarthea, shortness of breath, bradycardia and rash.

Post-marketing experience: The following adverse reactions have been identified during post-approval use of metoprolol extended-release or immediate-release metoprolol. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal

these reactions a relationship to d

these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causat relationship to drug exposure. <u>Cardiovascular</u>: Cold extremities, arterial insufficiency (usually of the Raynaud type), palpitations, peripheral edema, syncope, chest pain and hypotension. <u>Cartical Neuroscular</u>: Cold extremities, arterial insufficiency (usually of the Raynaud type), palpitations, peripheral edema, syncope, chest pain and hypotension. <u>Respiratory</u>: Wheezing (bronchospasm), dyspnea. <u>Respiratory</u>: Respiratory: In addition, there are adverse reactions not listed above that have been reported with other beta-adrenergic blocking agents and should be considered potential adverse reactions to metoprolol extended-release. <u>Central Nervosvis System</u>: Reversible mental depression progressing to catatonia; an acute reversible syndrome characterized by disorientation for time and place, short-term memory loss, emotional lability, clouded sensorium and decreased performance on neuropsychometrics. <u>Hypersensitive Reactions</u>; Laryngospasm, respiratory distress. <u>Laboratory: Teter Findings</u>; Clinical laboratory findings may include clevated levels of serum transaminase, alkaline phosphatase and lactate dehydrogenase. <u>Clinifolipine</u>

Laboratory: Test Endings: Clinical laboratory findings may include elevated levels of serum transaminase, alkaline phosphatase and lactate dehydrogenase. Clinidpine Dizziness; flushing: headache; hypotension; peripheral oedema; tachycardia; palpitations; GI disturbances; increased micturtion frequency; lethargy; eye pain; depression; ischaemic chest pain; cerebral or myocardial ischaemia; transient blindness; rashes; fever; abnormal liver function; gingival hyperplasia; myalgia; tremor; impotence. The mostly reported adverse reactions (mild and rare adverse reactions) during clinidipine treatment are nausea, headaches, swelling, low blood pressure, and edema (water retention), dizziness, cardiopalmus, and puffiness, which can be tolerated by most patients, and no management should be taken. Lab Interference; Falsely elevated spectrophotometric values of urinary vanillylmandelic acid. Telmisarta

Telmisartan Sammary of the safety profile Serious adverse reactions include anaphylactic reaction and angioedema which may occur rarely ($\geq 1/10,000$ to <1/1,000), and acute renal failure. The overall incidence of adverse reactions reported with telmisartan was usually comparable to placebo (41.4% vs 43.9%) in controlled trials in patients treated for hypertension. The incidence of adverse reactions was not dose related and showed no correlation with gender, age or race of the patients. The safety profile of telmisartan in patients treated for the reduction of cardiovascular morbidity was consistent with that obtained in hypertensive patients. Adverse reactions have been ranked under headings of frequency using the following convention: very common ($\geq 1/100$) to <1/100 to <1/100; rance ($\geq 1/10,000$ to <1/100); rare ($\geq 1/10,000$); very rare (< 1/10,000) Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness. Infections and infestations Incore respiratory tract infection including pharmatilis and sinusitis, urinary tract infection including cystifis

ma, erythema, urticaria, drug eruption, toxic skin eruption

Sepsis In the PRoFESS trial, an increased incidence of sepsis was observed with telmisartan compared with placebo. The event may be a chance finding or related to

a mechanism currently not known. "Hypotension" This adverse reaction was reported as common in patients with controlled blood pressure who were treated with telmisartan for the reduction of cardiovascular morbidity on top of standard care. "Interstitul lung disease Cases of interstitul lung disease have been reported from post-marketing experience in temporal association with the intake of telmisartan. However, a causal relationship has not been established. "Hepatic function abnormal / liver disorder Most cases of hepatic function abnormal / liver disorder from post-marketing experience occurred in Japanese patients. Japanese patients are more likely to "treations these adverse tractions.

Most cases of hepatic function abnormal / nerr disorder from post-marketing or contractions of the solution of the medicine is important. It allows continued monitoring of the benefit/risk balance of the medicine. Kindly report any suspected adverse reactions to pharmavigil@jbepl.com.

Metoprotol Overdosage of metoprolol extended-release may lead to severe bradycardia, hypotension and cardiogenic shock. Clinical presentation can also include: atrio-ventrioular block, heart failure, bronchospasm, hypoxia, impairment of consciousness/coma, nausea and vorming. Consider treating the patient with intensive care. Patients with myocardial infraction or heart failure may be prone to significant hemodynamic instability. Seek consultation with a regional poison control center and a medical toxicologist as needed. Beta-blocker overdose may result in significant resistance to resusci-tation with advencergic agents, including beta-agonists. On the basis of the pharmacologic actions of metoprolo employ the following measures. There is very limited experience with the use of hemodialysis to remove metoprolol, however metoprolol is not highly protein bound.

Investigations Uncommon: Blood creatinine increased Rare: Blood urie acid increased, hepatic enzyme increased, blood creatine phosphokinase increased, haemoglobin decreased 12,34, for further descriptions, please see sub-section "Description of selected adverse reactions" Description of selected adverse reactions

Infections and infestations Uncommon: Upper respiratory tract infection including pharyngitis and sinusitis, urinary tract infection including cystitis Rare: Sepsis including fatal outcome' Blood and the **ymphatic system disorders** Uncommon: Annemia Rare: Eosinophila, thrombocytopenia Immune system disorders Rare: Anaphylactic reaction, hypersensitivity Metabolism and nutrition disorders Uncommon: Hyperkalaemia Rare: Hypoglyacemia (in diabetic patients)

Rare: Hypoglycaemia (in diabetic patients) Psychiatric disorders Uncommon: Depression, insomnia

Rare: Anxiety Nervous system disorders

Rare: Sonnolence Eye disorders Rare: Visual disturba

Ear and labyrinth disorders Uncommon: Vertigo Cardiac disorders

Uncommon: Bradycardia Rare: Tachycardia Vascular disorders

Vascular disorders Uncommon: Hypotension², orthostatic hypotension Respiratory, thoracic and mediastinal disorders Uncommon: Dyspnoca, cough Very rare: Interstitial lung disease³ Gastrointestinal disorders Uncommon: Abdominal pain, diarthoea, dyspepsia, flatulence, vomiting Rare: Stomach disconfort, dry mouth, dysgeusia Hepato-bilizary disorders Rare: Hepatic function abnormal/liver disorder⁴

Rare: Hepatic function aonormariner use Skin and subcutaneous tissue disorders Uncommon: Hyperhidrosis, pruritus, rash Rare: Angioedema (also with fatal outcom

chanism currently not known

Rare: Angioedema (also with fatal outcome), eczema, erythema, urticaria, d Muscolosketetal and connective tissue disorders Uncommon: Myalgia, back pain (e.g. sciatica), muscle spasms Renal and urinary disorders Uncommon: Renal impairment including acute renal failure General disorders and administration site conditions Uncommon: Chest pain, asthenia (weakness) Rare: Influenza-like illness Investigations Uncommon: Blood creatinine increased

renal insufficiency, in diabetic patients, in patients concomitantly treated with other medicinal products that may increase potassium levels, and/or in patients with intercurrent events, hyperkalaemia may be fatal. Close-monitoring of serum potassium in at risk patients is recommended. <u>Educi difference</u>: As observed for angiotensin converting enzyme inhibitors, telmisartan and the other angiotensin II receptor antagonists are apparently less effective in lowering blood pressure in black people than in non-blacks, possibly because of higher prevalence of low-renin states in the black hypertensive convolution. effective in lowering blood pressure in black people than in non-blacks, possibly because or nighter prevarence or non-terminated in any population. *Other:* As with any antihypertensive agent, excessive reduction of blood pressure in patients with ischaemic cardiopathy or ischaemic cardiopathy

could result in a myocarolal infarction or stroke. The Product Claar TM 25 is an extended-release tablet. The Metroprolol Tartrate part is an extended release from which the drug is released slowly predetermined rate in order to maintain a drug concentration for a specific period of time through a matrix. Sometimes the tablet being noticed in ex 'fohost Tablet' which is only the outer shell of a pill without active ingredients. When this happens a person may worry the medication did not dissolv not work. Finding a pill in the stool is entirely normal for long-acting medications.

DRUG INTERACTIONS

DRUG INTERACTIONS Metoprolo Catecholamine-depleting drugs (e.g., reserpine, mono amine oxidase (MAO) inhibitors) may have an additive effect when given with beta-blocking agents. Pa-tients treated with metoprolol succinate extended-release tablets plus a catecholamine depletor should therefore be closely observed for evidence of hypotension or marked bradycardia, which may produce vertigo, syncope, or postural hypotension. Drugs that inhibit CYP2D6 extensive metabolizer phenotype, co-administration of quinidine 100 mg and immediate release metoprolol 200 mg tripled the concentration of S-metoprolol and doubled the metoprolo climination half-life. In four particents with activorsacular disease, co-administration of propafenone 150 mg t.i.d. with immediate release metoprolol 30 mg t.i.d. resulted in two- to five-fold increases in the steady-state concentration of propafenone 150 mg t.i.d. with immediate release metoprolol 30 mg t.i.d. resulted in two- to five-fold increases in the steady-state concentration of propafenone 150 mg t.i.d. should be withdrawn several days before the gradual withdrawal of clonidine. If replacing clonidine by beta-blocker therapy, the introduction of beta-blockers should be delayed for several days after clonidine administration has stopped.

should be delayed for several days after comone summer and the delayed of several days after comone summer and the delayed of several days after comone several days and the delayed of several days after comone several days and the delayed of several days after comone several Cinden days after comone several days after comone se

Digoxin When telmisartan was co-administered with digoxin, median increases in digoxin peak plasma concentration (49%) and in trough concentration (20%) were observed. When initiating, adjusting, and discontinuing telmisartan, monitor digoxin levels in order to maintain levels within the therapeutic range. As with other medicinal products dating on the renin-angiotensin-aldosterone system, telmisartan may provoke hyperkalaemia. The risk may increase in case of treatment combinations with other medicinal products that may also provoke hyperkalaemia (salt substitutes containing potasium, potasium-paring diurcitics, ACE inhibitors, angiotensin II receptor antagonists, non steroidal anti-inflammatory medicinal products (NSAIDs, including selective COX-2 inhibitors), heparin, immunosuppressives (cyclospori nor tarcolimus), and timethoprimy. The recurrence of hyperkalaemia depends on associated risk factors. The risk is increased in case of the above-mentioned treatment combinations. The risk is particularly high in combination with potassium sparing-dirurcites, and when combined with salt substitutes containing potassium. A combination with ACE inhibitors or NSAIDs, for example, presents a lesser risk provided that precautions for use are strictly followed.

mhbtors or NSAIDs, for example, presents a lesser risk provided that precautions for use are strictly followed. Concomitant use not recommended Potassium sparing diurcites or potassium supplements Angiotensin II receptor antagonists such as telmisartan, attenuate diuretic induced potassium loss. Potassium sparing diuretics e.g. spirinolactone, eplerenone, trianterene, or amiloride, potassium supplements, or potassium-containing salt substitutes may lead to a significant increase in serum potassium. If concomitant use is indicated because of documented hypokalaemia, they should be used with caution and with frequent monitoring of serum potassium. Lithium

Reversible increases in serum lithium concentrations and toxicity have been reported during concomitant administration of lithium with angiotensin Converting enzyme inhibitors, and with angiotensin II receptor antagonists, including telmisartan. If use of the combination proves necessary, careful monitoring of serum lithium levels is recommended.

Concomitant use requiring caution Non-steroidal anti-inflammatory medic NSAIDs (i.e. acetylsalicylic acid at ant Concomiant use requiring caution Non-steroid anti-inflammatory medicinal products NSAIDs (i.e. acetylsalicylic acid at anti-inflammatory dosage regimens, COX-2 inhibitors and non-selective NSAIDs) may reduce the antihypertensive effect of angiotensin II receptor antagonists. In some patients with compromised renal function (e.g. dehydrated patients or elderly patients with compromised renal function), the co-administration of angiotensin II receptor antagonists and agents that inhibit cyclo-oxygenase may result in further deterioration of renal function), the co-administration of angiotensin II receptor antagonists and agents that inhibit cyclo-oxygenase may result in further deterioration of renal function), the co-administration of elemisarta and consideration should be given to monitoring of renal function after initiation of concomitant therapy and periodically thereafter. In one study the co-administration of telmisarta and ramipril led to an increase of up to 2.5 fold in the AUC_{6.53} and C_{max} of ramipril and ramiprilat. The clinical relevance of this observation is not known.

If Offe Study in Co-automatication of termination o

risk of hypotension when initiating therapy with telmisartan To be taken into account with concomitant use Other antihypertensive agents

Other antihypertensive agents The blood pressure lowering effect of telmisartan can be increased by concomitant use of other antihypertensive medicinal products. Clinical trial data has shown that dual blockade of the renin-angiotensin-aldosterone-system (RAAS) through the combined use of ACE-inhibitors, angiotensin II receptor blockers or aliskinen is associated with a higher frequency of adverse events such as hypotension, hyperkalaemia and decreased renal function (including acute renal failure) compared to the use of a single RAAS-acting agent. Based on their pharmacological properties it can be expected that the following medicinal products may potentiate the hypotensive effects of all antihyperten-sives including telmisartam. Baclofen, amifostime. Furthermore, orthostatic hypotension may be aggravated by alcohol, barbiturates, narcotics, or antidepres-tives including telmisartam.

Corticosteroids (systemic use) Reduction of the antihypertensive effect.

Clinidipine The general symptoms of overdose with clinidipine are: hypotension and low heartbeat, or coma. Immediately contact your nearby emergency department before these symptoms get worse. Appropriate measures such as lifting lower extremities, fluid therapy and administration of vasopressors should be taken. Telmistrata Limited data are available with regard to overdosage in humans. The most likely manifestations of overdosage with telmisartan would be hypotension, dizziness and tachycardia; bradycardia could occur, from parasympathetic (vagal) stimulation. If symptomatic hypotension should occur, supportive treatment should be instituted. Telmistrata in an emoved by hemodialysis. and tachycardia; bradycardia could occur from para instituted. Telmisartan is not removed by hemodialy

PHARMACOLOGICAL PROPERTIES Pharmacodynamic properties

Pharmacodynamic properties Metoprolol Metoprolol is a betal-selective (cardio-selective) adrenergic receptor blocking agent. This preferential effect is not absolute, however, and at higher pla centrations, metoprolol also inhibits beta2-adrenoreceptors, chiefly located in the bronchial and vascular musculature. Metoprolol has no intrinsic sym metic activity, and membrane-stabilizing activity is detectable only at plasma concentrations much greater than required for beta-blockade. Animal at experiments indicate that metoprolol slows the sinus rate and decreases attriventricular (AV) nodal conduction. Clinical plasmacology studies have c the beta-blocking activity of metoprolol in man, as shown by (1) reduction in the heart rate and cardiac output at rest and upon exercise, (2) reduction of blood pressure upon exercise, (3) inhibition of isoproterenol-induced tachycardia, and (4) reduction of reflex orthostatic tachycardia. ogy studies have confir ise, (2) reduction of sys

Dood pressure upon concess, (3), measures the second secon

<u>Telmisartan</u> is on orally active and specific angiotensin II receptor (type AT1) antagonist. Telmisartan displaces angiotensin II with very high affinity fi binding site at the AT1 receptor subtype, which is responsible for the known actions of angiotensin II. Telmisartan does not exhibit any partial agonist at the AT1 receptor. Telmisartan selectively binds the AT1 receptor. The binding is long-lasting. Telmisartan does not show affinity for other receptors, in AT2 and other less characterized AT receptors. The functional role of these receptors is not known, nor is the effect of their possible overstimulation by tensin II, whose levels are increased by telmisartan. Plasma aldosterone levels are decreased by telmisartan. Telmisartan does not inhibit human plasm or block ion channels. Telmisartan does not inhibit angiotensin converting enzyme (kininase II), the enzyme which also degrades bradykinin. Therefore is expected to potentiate bradykinin-mediated adverse events. In human, an 80 mg does of telmisartan almost completely inhibits the angiotensin II evoked pressure increase. The inhibitory effect is maintained over 24 hours and still measurable up to 48 hours. by angi

Pharmacokinetic properties

Cilnidipine

Maggradian Maggra ate 50% of

Cilnidipine

<u>Clindipine</u> <u>Clindipine</u> <u>Clindipine</u> <u>Clindipine</u> presents a very rapid absorption with a maximum peaked concentration after 2 hours. Its distribution tends to be higher in the liver as well as in kidneys, plasma and other tissues. Clindipine does not present a high accumulation in the tissue after repeated oral administration. Drugs on the group of dihydropyridines such as clindipine tends to have a large volume of distribution. Clindipine presents a very high protein binding that represents to even 98% of the administered dose. Clindipine is metabolized by both liver and kidney. It is rapidly metabolized by liver microsomes by a dehydrogenation of the dihydropyridine ring is CYP3A. Clindipine gets climinated through the urine in a proportion of 20% of the administered dose and 80% is eliminated by the fees. The half-life of the hypotensive effect for clindipine is of about 20.4 min. Telmisattan

a proportion of 20% of the administered dose and 80% is eliminated by the feces. The half-life or properties or encours 20.4 mm. <u>Telmisartan</u> Absorption of telmisartan is rapid although the amount absorbed varies. The mean absolute bioavailability for telmisartan is about 50 %. When telmisartan is taken with food, the reduction in the area under the plasma concentration-inter curve (AUCO-2x) of telmisartan varies from approximately 6 % (40 mg dose); to approximately 0 % (160 mg dose). By 3 hours after administration, plasma concentration-time curve (AUCO-2x) of telmisartan parteen taking or with food. Telmisartan is largely bound to plasma protein (>99.5 %), mainly albumin and alpha-1 acid glycoprotein. The mean steady state apparent volume of distribution (Vdss) is approximately 6 % (160 mg dose). By 3 hours after administration, plasma concentrations are similar whether telmisartan is taken fasting or with food. Telmisartan is largely bound to plasma protein (>99.5 %), mainly albumin and alpha-1 acid glycoprotein. The mean teady state apparent volume of distribution (Vdss) is approximately 500 L. Telmisartan is metabolised by conjugation to the glucuronide of the parent compound. No pharmacological activity has been shown for the conjugate. Telmisartan is an early stop pharmacokinetics with a terminal elimination half-1fo of >20 hours. The maximum plasma concentration (Cmax) and to a smaller extent, the AUC; increase disproportionately with dose. There is no evidence of clinically relevant accumulation of telmisartan taken at the recommended dose. Plasma concentrations were thigher in females than in males, without relevant influence on efficacy. After oral (and intravenous) administration, telmisartan is nearly exclusively excreted with the faces, mainly as unchanged compound. Cumulative urinary excretion is <1 % of dose. Total plasma clearance (CIOti) is high (approximately 1,000 m/min) compared with heatic blood flow (about 1, 500 m/min). Linearity/non-linearity: The small reduction in AUC is not expec

INCOMPATIBILITY

STORAGE INSTRUCTIONS Store at a temperature not exceeding 30°C. Keep out of reach of children.

ortant: Moisture sensitive tablets - Do not remove from strip until immediately before administration.

PACKAGING INFORMATION Blister of 2 tablate and 200



Note: This prescribing information is applicable for India Market only

DATE: November 2024