

White to off-white color, oval shape, biconvex, uncoated tablets debossed with 'L204' on one side and plain on other side.

3. CLINICAL PARTICULARS 3.1 Therapeutic indications

Hypertension

Treatment of essential hypertension in adults.

Cardiovascular risk reduction Telmisartan is indicated for reduction of the risk of myocardial infarction, stroke, or death from cardiovascular causes in patients 55 years of age or older at high risk of developing major cardiovascular events who are unable to take ACE inhibitors.

High risk of cardiovascular events can be evidenced by history of coronary artery disease, peripheral arterial disease, stroke, transient ischemic attack, or high-risk diabetes (insulin-dependent or non-insulin dependent) with evidence of end-organ damage. Telmisartan can be used in additional to other needed treatment (such as antihypertensive, antiplatelet or lipid-lowering therapy).

Consider using the ACE inhibitor first, and, if it is stopped for cough only, consider re-trying the ACE inhibitor after the cough resolves.

of telmisartan with an ACE inhibitor is not recommended. dies of Telmisartan in this setting do not exclude that it may not preserve a meaningful Studies of fraction of the effect of the ACE inhibitor to which it was compared

3.2 Posology and method of administration

Posology

Adults

Treatment of essential hypertension

The usually effective dose is 40 mg once daily. In cases where the target blood pressure is not achieved, the dose of telmisartan can be increased to a maximum of 80 mg once daily. Alternatively, telmisartan may be used in combination with thiazide-type diuretics such as hydrochlorothiazide, which has been shown to have an additive blood pressure lowering effect with telmisartan. When considering raising the dose, it must be borne in mind that the maximum antihypertensive effect is generally attained four to eight weeks after the start of treatment (see section 4.1)

In patients with severe hypertension treatment with telmisartan at doses up to 160 mg alone and in combination with hydrochlorothiazide 12.5-25 mg daily was well tolerated and effective.

Cardiovascular prevention

The recommended dose is 80 mg once daily. It is not known whether doses lower than 80 mg of telmisartan are effective in reducing cardiovascular morbidity. When initiating telmisartan therapy for the reduction of cardiovascular morbidity, close monitoring of blood pressure is recommended, and if appropriate adjustment of medications that lower blood pressure may be necessary

Renal impairment

No posology adjustment is required for patients with renal impairment, including those on haemodialysis

Telmisartan is not removed from blood by hemofiltration.

Hepatic impairment

In patients with mild to moderate hepatic impairment, the posology should not exceed 40 mg once daily (see section 3.4).

<u>Elderly</u> No dose adjustment is necessary for elderly patients.

Paediatric population

The safety and efficacy of Telmisartan in children and adolescents aged below 18 years have not been established.

<u>Method of administration</u> Telmisartan tablets are for once-daily oral administration and should be taken with liquid, with or without food.

Precautions to be taken before handling or administering the medicinal product.

artan should be kept in the sealed blister due to the hygroscopic property of the tablets. Tablets should be taken out of the blister shortly before administration (see section 5.6)

3.3 Contraindications

or to any of the excinients lis Hypersens ivity to t ted in section 5.1

- cond and third trimesters of pregnancy (see sections 3.4 and 3.6) • Se
- Biliary obstructive disorders
- Severe hepatic impairment

The concomitant use of Telmisartan with aliskiren-containing products is contraindicated in patients with diabetes mellitus or renal impairment (GFR < 60 ml/min/1.73 m²) (see sections 3.5 and 4.1).

In case of rare hereditary conditions that may be incompatible with an excipient of the product (please refer to 'special warnings and precautions') the use of the product is Contraindicated

3.4 Special warnings and precautions for use

Pregnancy Angiotensin II receptor antagonists should not be initiated during pregnancy. Unless continued angiotensin II receptor antagonist therapy is considered essential, patients planning pregnancy should be changed to alternative antihypertensive treatments which have an established safety profile for use in pregnancy. When pregnancy is diagnosed, treatment with angiotensin II receptor antagonists should be stopped immediately, and, if appropriate, alternative therapy should be started (see sections 3.3 and 3.6).

Hepatic impairment Telmisartan is not to be given to patients with cholestasis, biliary obstructive disorders or severe hepatic impairment (see section 3.3) since telmisartan is mostly eliminated with the bile. These patients can be expected to have reduced hepatic clearance for telmisartan. Telmisartan should be used only with caution in patients with mild to moderate hepatic impairment

<u>Renovascular hypertension</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 renin-angiotensin-aldosterone system

Renal impairment and kidney transplantation When Telmisartan is used in patients with impaired renal function, periodic monitoring of potassium and creatinine serum levels is recommended. There is no experience regarding

the administration of Telmisartan in patients with recent kidney transplantation.

Intravascular hypovolaemia Symptomatic hypotension, especially after the first dose of Telmisartan, may occur in patients who are volume and/or sodium depleted by vigorous diuretic therapy, dietary salt restriction, diarrhoea, or vomiting. Such conditions should be corrected before the administration of Telmisartan. Volume and/or sodium depletion should be corrected prior to administration of Telmisartan.

Dual blockade of the renin-angiotensin-aldosterone system (RAAS) 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 blockade of RAAS through the combined use function (including acute renai failure). Dual blockade of RAAS through the combined use of ACE-inhibitors, angiotensin II receptor blockers or aliskinen is therefore not recommend-ed (see sections 3.5 and 4.1). If dual blockade therapy is considered absolutely necessary, this should only occur under specialist supervision and subject to frequent close monitoring of renal function, electrolytes and blood pressure. ACE-inhibitors and angiotensin II receptor blockers should not be used concomitantly in patients with diabetic nephropathy.

Other conditions with stimulation of the renin-angiotensin-aldosterone system 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 artery stenosis), treatment with medicinal products that affect this system such as telmisartan has been associated with acute hypotension, hyperazotaemia, oliguria, or rarely acute renal failure (see section 3.8).

<u>Primary aldosteronism</u> Patients with primary aldosteronism generally will not respond to antihypertensive medicinal products acting through inhibition of the renin-angiotensin system. Therefore, the use of telmisartan is not recommended.

<u>Aortic and mitral valve stenosis, obstructive hypertrophic cardiomyopathy</u> As with other vasodilators, special caution is indicated in patients suffering from aortic or mitral stenosis, or obstructive hypertrophic cardiomyopathy.

Diabetic patients treated with insulin or antidiabetics In these patients hypoglycaemia may occur under telmisartan treatment. Therefore, in these patients an appropriate blood glucose monitoring should be considered; a dose distributed to the telminate telminate the terminate terminat adjustment of insulin or antidiabetics may be required, when indicated.

Hyperkalaemia

<u>Hyperkalaernia</u> The use of medicinal products that affect the renin-angiotensin-aldosterone system may cause hyperkalaemia. In the elderly, in patients with 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.

Before considering the concomitant use of medicinal products that affect the renin-angiotensin- aldosterone system, the benefit risk ratio should be evaluated. The main risk factors for hyperkalaemia to be considered are

 Diabetes mellitus, renal impairment, age (>70 years)
Combination with one or more other medicinal products that affect the renin-angiotensinaldosterone system and/or potassium supplements. Medicinal products or therapeutic classes of medicinal products that may provoke hyperkalaemia are salt substitutes containing potassium, potassium-sparing diuretics, ACE inhibitors, angiotensin II receptor antagonists, non steroidal anti-inflammatory medicinal products (NSAIDs, including selective COX-2 inhibitors), heparin, immunosuppressives (cyclosporin or tacrolimus), and

trimethoprim. - Intercurrent events, in particular dehydratation, acute cardiac decompensation, metabolic acidosis, worsening of renal function, sudden worsening of the renal condition (e.g. infectious diseases), cellular lysis (e.g. acute limb ischemia, rhabdomyolysis, extend

Close monitoring of serum potassium in at risk patients is recommended (see section 3.5).

Ethnic differences 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 population.

trauma).

As with any antihypertensive agent, excessive reduction of blood pressure in patients with ischaemic cardiopathy or ischaemic cardiovascular disease could result in a myocardial infarction or stroke.

3.5 Interaction with other medicinal products and other forms of interaction

Digoxin

When initiating, adjusting, and discontinuing telmisartan, monitor digoxin levels in order to maintain levels within the therapeutic range.

As with other medicinal products acting on the renin-angiotensin-aldosterone system, telmisartan may provoke hyperkalaemia (see section 3.4). The risk may increase in case of treatment combination with other medicinal products that may also provoke hyperkalae-mia (salt substitutes containing potassium, potassium-sparing diuretics, ACE inhibitors, registrative the sector and ensin II receptor antago ts, non st roidal anti- inflam natory me and dicinal product (NSAIDs, including selective COX-2 inhibitors), heparin, immunosuppressives (cyclosporin or tacrolimus), and trimethoprim).

The occurrence 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-diuretics, 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.

Concomitant use not recommended.

Potassium sparing diuretics or potassium supplements Angiotensin II receptor antagonists such as telmisartan, attenuate diuretic induced potassium loss. Potassium sparing diuretics e.g. spirinolactone, eplerenone, triamterene, 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

rsible 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 combina-tion proves necessary, careful monitoring of serum lithium levels is recommended.

omitant use requiring cauti

Non-steroidal 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, including possible acute renal failure, which is usually reversible. Therefore, the combination should be administered with caution, especially in the elderly. Patients should be adequately hydrated and consideration should be given to monitoring of renal function after initiation of concomitant therapy and periodically thereafter.

<u>Diuretics (thiazide or loop diuretics)</u> Prior treatment with high dose diuretics such as furosemide (loop diuretic) and hydrochlo-rothiazide (thiazide diuretic) may result in volume depletion, and in a risk of hypotension when initiating therapy with telmisartan.

To be taken into account with concomitant use

Other antihypertensive agents The blood pressure lowering effect of telmisartan can be increased by concomitant use of other antihypertensive medicinal products.

Dual blockade of the renin-angiotensin-aldosterone-system (RAAS) through the combined use of ACE-inhibitors, angiotensin II receptor blockers or aliskiren 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 (see sections 3.3, 3.4 and 4.1).

Based on their pharmacological properties it can be expected that the following medicinal products may potentiate the hypotensive effects of all antihypertensives including telmisartan: Baclofen, amifostine. Furthermore, orthostatic hypotension may be aggravated by alcohol, barbiturates, narcotics, or antidepressants.

<u>Corticosteroids (systemic route)</u> Reduction of the antihypertensive effect.

3.6 Fertility, pregnancy and lactation

Pregnancy

The use of angiotensin II receptor antagonists is not recommended during the first trimester of pregnancy (see section 3.4). The use of angiotensin II receptor antagonists is contraindicated during the second and third trimesters of pregnancy (see sections 3.3 and 3.4).

There are no adequate data from the use of Telmisartan in pregnant women.

Epidemiological evidence regarding the risk of teratogenicity following exposure to ACE Epidemiological evidence regarding the risk of teratogenicity following exposure to ACE inhibitors during the first trimester of pregnancy has not been conclusive; however a small increase in risk cannot be excluded. Whilst there is no controlled epidemiological data on the risk with angiotensin II receptor antagonists, similar risks may exist for this class of drugs. Unless continued angiotensin II receptor antagonist therapy is considered essential, patients planning pregnancy should be changed to alternative antihypertensive treatments which have an established safety profile for use in pregnancy. When pregnancy is diagnosed, treatment with angiotensin II receptor antagonists should be stopped immediately, and, if appropriate, alternative therapy should be started.

Exposure to angiotensin II receptor antagonist therapy during the second and third trimesters is known to induce human fetotoxicity (decreased renal function, oligohydramnios, skull ossification retardation) and neonatal toxicity (renal failure, hypotension, hyperkalaemia).

Should exposure to angiotensin II receptor antagonists have occurred from the second trimester of pregnancy, ultrasound check of renal function and skull is recommended. Infants whose mothers have taken angiotensin II receptor antagonists should be closely observed for hypotension (see sections 3.3 and 3.4).

Breast-feeding

e no information is available regarding the use of Telmisartan during breast-feed Becaus ing, Telmisartan is not recommended and alternative treatments with better established safety profiles during breast- feeding are preferable, especially while nursing a newborn or preterm infant.

Eertility In preclinical studies, no effects of Telmisartan on male and female fertility were observed. No studies on fertility in humans have been performed.

3.7 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 or drowsines Telmisartan.

Jndesirable effe

<u>Summary of the safety profile</u> Serious adverse drug reactions include anaphylactic reaction and angioedema which may occur rarely, and acute renal failure.

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.

Tabulated list of adverse reactions

Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

Infections and infestations

Uncommon: Urinary tract infection including cystitis, upper respiratory tract infection including pharyngitis and sinusitis Rare: Sepsis including fatal outcome¹

Blood and the lymphatic system disorders

Uncommon: Anaemia Rare: Eosinophilia, thrombocytopenia

Immune system disorders

Rare: Anaphylactic reaction, hypersensitivity

Metabolism and nutrition disorders Uncommon: Hyperkalaemia Rare: Hypoglycaemia (in diabetic patients)

Psychiatric disorders

Uncommon: Insomnia, depression Rare: Anxiety

Nervous system disorders Uncommon: Syncope

Rare: Somnolence

Eye disorders

Rare: Visual disturbance

Ear and labyrinth disorders Uncommon: Vertigo

Cardiac disorders

Uncommon: Bradycardia Rare: Tachycardia

Vascular disorders

Uncommon: Hypotension², orthostatic hypotension

Respiratory, thoracic and mediastinal disorders Uncommon: Dyspnoea, cough Very rare: Interstitial lung disease⁴

Gastrointestinal disorders

Uncommon: Abdominal pain, diarrhoea, dyspepsia, flatulence, vomiting Rare: Dry mouth, stomach discomfort, dysgeusia

Hepato-biliary disorders Rare: Hepatic function abnormal/liver disorder³

Skin and subcutaneous tissue disorders

Uncommon: Pruritus, hyperhidrosis, rash Rare: Angioedema (also with fatal outcome), eczema, erythema, urticaria, drug eruption, toxic skin eruption

Muscoloskeletal and connective tissue disorders Uncommon: Back pain (e.g. sciatica), muscle spasms, myalgia Rare: Arthralgia, pain in extremity, tendon pain (tendinitis like symptoms)

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 Rare: Haemoglobin decreased, blood uric acid increased, hepatic enzyme

increased, blood creatine phosphokinase increased

1.2.3.4: for further descriptions, please see sub-section "Description of selected adverse reactions"

Description of selected adverse reactions

An increased incidence of sepsis was observed with telmisartan. The event may be a chance finding or related to a mechanism currently not known (see also section 4.1).

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.

Hepatic function abnormal / liver disorder

Nost cases of hepatic function abnormal / liver disorder from post-marketing experience occurred in Japanese patients. Japanese patients are more likely to experience these adverse reactions.

Interstitial lung disease

Cases of interstitial 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.

3.9 Overdose and Treatment

There is limited information available with regard to overdose in humans.

Symptoms

The most prominent manifestations of telmisartan overdose were hypotension and tachycardia; bradycardia dizziness, increase in serum creatinine, and acute renal failure have also been reported.

Management

<u>Management</u> Telmisartan is not removed by haemodialysis. The patient should be closely monitored, and the treatment should be symptomatic and supportive. Management depends on the time since ingestion and the severity of the symptoms. Suggested measures include induction of emesis and / or gastric lavage. Activated charcoal may be useful in the treatment of overdosage. Serum electrolytes and creatinine should be monitored frequent-ly. If hypotension occurs, the patient should be placed in a supine position, with salt and volume replacement given quickly.

4. PHARMACOLOGICAL PROPERTIES

4.1 Pharmacodynamic properties

Pharmacotherapeutic group: Angiotensin II Antagonists, plain, ATC Code: C09CA07.

Mechanism of action Telmisartan is an orally active and specific angiotensin II receptor (type AT1) antagonist. Telmisartan displaces angiotensin II with very high affinity from its binding site at the AT1 receptor subtype, which is responsible for the known actions of angiotensin II. Telmisartan does not exhibit any partial agonist activity at the AT1 receptor. Telmisartan selectively binds the AT1 receptor. The binding is long-lasting. Telmisartan does not show affinity for other receptors, including AT2 and other less characterised AT receptors. The functional role of these receptors is not known, nor is the effect of their possible overstimulation by angiotensin II, whose levels are increased by telmisartan. Plasma aldosterone levels are elmisartan Telmis rtan doe not inhihit hu d reased or block s. Telmisartan does not inhibit angiotensin converting enzyme (kinimas II), the which also degrades bradykinin. Therefore it is not expected to potentiate channels. enzyme bradykinin- mediated adverse effects

In human, an 80 mg dose of telmisartan almost completely inhibits the angiotensin II evoked blood pressure increase. The inhibitory effect is maintained over 24 hours and still evoked blood pres measurable up to 48 hours.

After the first dose of telmisartan, the antihypertensive activity gradually becomes evident within 3 hours. The maximum reduction in blood pressure is generally attained 4 to 8 weeks after the start of treatment and is sustained during long-term therapy.

 $\frac{Paediatric \ population}{The safety and efficacy of Telmisartan in children and adolescents aged below 18 years}$ have not been established.

4.2 Pharmacokinetic properties

Absorption

Absorption 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-time curve (AUCO-a) of telmisartan varies from approximately 6 % (40 mg dose) to approximately 19 % (160 mg dose). By 3 hours after administration, plasma concentrations are similar whether telmisartan is taken fasting or with food.

Linearity/non-linearity

The small reduction in AUC is not expected to cause a reduction in the therapeutic efficacy. There is no linear relationship between doses and plasma levels. Cmax and to a lesser extent AUC increase disproportionately at doses above 40 mg.

Distribution 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 500 l.

Biotransformation Telmisartan is metabolised by conjugation to the glucuronide of the parent compound. No pharmacological activity has been shown for the conjugate.

Elimination

Telmisartan is characterised by biexponential decay pharmacokinetics with a terminal elimination half-life of >20 hours. The maximum plasma concentration (C_{max}) and, to a smaller extent, the area under the plasma concentration-time curve (AUC), increase disproportionately with dose. There is no evidence of clinically relevant accumulation of telmisartan taken at the recommended dose.

Plasma concentrations were higher in females than in males, without relevant influence on efficacy.

After oral (and intravenous) administration, telmisartan is nearly exclusively excreted with the faeces, mainly as unchanged compound. Cumulative urinary excretion is <1 % of dose. Total plasma clearance (Cltot) is high (approximately 1,000 ml/min) compared with hepatic blood flow (about 1,500 ml/min).

Special Populations

Gender Differences in plasma concentrations were observed, with Cmax and AUC being approximately 3- and 2-fold higher, respectively, in females compared to males

Elderly

The pharmacokinetics of telmisartan do not differ between the elderly and those younger than 65 years.

Renal impairment

In patients with mild to moderate and severe renal impairment, doubling of plasma concentrations was observed. However, lower plasma concentrations were observed in patients with renal insufficiency undergoing dialysis. Telmisartan is highly bound to plasma protein in renal-insufficient patients and cannot be removed by dialysis. The elimination half-life is not changed in patients with renal impairment.

Hepatic impairment

Pharmacokinetic studies in patients with hepatic impairment showed an increase in absolute bioavailability up to nearly 100 %. The elimination half-life is not changed in patients with hepatic impairment.

For suspected adverse drug reaction, report to the FDA: www.fda.gov.ph. Seek medical attention immediately at the first sign of any adverse drug reaction.

5. PHARMACEUTICAL PARTICULARS

5.1 List of excipients

Mannitol Pearlitol SD 200) odium Hydroxide Mealumine Povidone K-25 Sodium Stearyl Fumarate Magnesium Stearate

5.2 Incompatibilities

Not applicable.

5.3 Shelf life

36 Months

5.4 Special precautions for storage

Store at temperatures not exceeding 30°C.

Caution

Foods, Drugs, Devices and Cosmetics Act prohibits dispensing without prescription.

5.5 Nature and contents of container

TELMISARTAN 40 mg and 80 mg Tablets Alu/Alu Blister Pack x 10's (Box of 30's)

5.6 Special precautions for disposal and other handling

TELMISARTAN Tablets should be kept in the sealed blister due to the hygroscopic property of the tablets. Tablets should be taken out of the blister shortly before admi nistration.

Any unused medicinal product or waste material should be disposed of in accordance with al requirements

Manufactured by:

Alembic Pharmaceuticals Limited (Formulation Division), Village Panelav, P. O. Tajpura, Near Baska, Taluka : Halol Done Imported and Distributed by: Natrapharm Inc. The Patriot Bldg, South Luzon Expressway Parañaque, Metro Manila

6. REGISTRATION NUMBER: 40mg DR-XY48942 ; 80mg DR-XY48941 DATE OF FIRST AUTHORIZATION: November 2023 DATE OF REVISION: December 2023