PERINDOPRIL ARGININE + INDAPAMIDE + AMLODIPINE

TRIPLIXAM®

5mg/1.25mg/5mg Film-coated tablet 5mg/1.25mg/10mg Film-coated tablet 10mg/2.5mg/10mg Film-coated tablet

ANTIHYPERTENSIVE

DESCRIPTION:

Amlodipine is a calcium ion influx inhibitor of the dihydro-tablet, 9.75 mm long and 5.16 mm wide, engraved with pyridine group (slow channel blocker or calcium ion antagonist) on one face and 룩 2 on the other face.

Triplixam 5mg/1.25mg/10mg; white, oblong, film-coated tablet, 10.7 mm long and 5.66 mm wide, engraved with on one face and 3 on the other face.

Triplixam 10mg/2.5mg/10mg; white, oblong, film-coated tablet, 12.2 mm long and 6.46 mm wide, engraved with 💝 on one face and 5 on the other face.

- besilate, EP equivalent to 5mg of amlodipine.

 One film-coated tablet of Triplixam 5mg/1.25mg/10mg
- arginine, 1.25mg indapamide, EP and 13.870mg amlodipine besilate, EP equivalent to 10mg of amlodipine.
- contains 6.790mg perindopril equivalent to 10mg perindopril arginine, 2.5mg indapamide, EP and 13.870mg amlodipine arginine, 2.5mg indapamide, EP and 13.870mg amlodipine besilate. EP equivalent to 10mg of amlodipine

PHARMACODYNAMICS AND PHARMACOKINETICS:

is a combination of three antihypertensive components with complementary mechanisms to control blood pressure in the control b patient with hypertension. Perindopril arginine salt is an angiotensin converting enzyme inhibitor, indapamide,

a cliniosciphanion dialetic and almodiphie, a calcium for flux inhibitor of the dihydropyridine group. The pharmacological properties of Perindopril arginine + Indapamide + Amindipine (TRIPLIXAM) are derived from those of each of the components taken separately. In addition, the combination of perindopril/indapamide produces an additive synergy of the antihypertensive effects of the two

Mechanism of action

Perindopril is an inhibitor of the angiotensin converting enzyme ACE inhibitor) which converts angiotensin I to angiotensin II, a vasoconstricting substance; in addition the enzyme stimulates the secretion of aldosterone by the adrenal cortex and stimulates the degradation of bradykinin, a vasodilatory substance, into inactive heptapeptides.

This results in:

- a reduction in aldosterone secretion. an increase in plasma renin activity, since aldosterone no
- longer exercises negative feedback.
- a reduction in total peripheral resistance with a preferential action on the vascular bed in muscle and the kidney, with no accompanying salt and water retention or reflex

The antihypertensive action of perindopril also occurs in patients with low or normal renin concentrations indopril acts through its active metabolite, perindoprilat.

The other metabolites are inactive.

Perindopril reduces the work of the heart:

 through reduces the work of the heart.
 by a vasodilatory effect on veins, probably caused by changes in the metabolism of prostaglandins: reduction in pre-load

• by reduction of the total peripheral resistance: reduction in

- a reduction in left and right ventricular filling pressures,
- a reduction in total peripheral vascular resistance,
- an increase in regional blood flow in muscle.

Exercise test results also showed improvement.

ndapamide is a sulfonamide derivative with an indole ring. pharmacologically related to the thiazide group of diuretics. Indapamide inhibits the reabsorption of sodium in the cortical dilution segment. It increases the urinary excretion of sodium and chlorides and, to a lesser extent, the excretion of potassium and magnesium, thereby increasing urine output and having an antihypertensive action.

The desired for the desired f

pyridine group (slow channel blocker or calcium ion antagonist) and inhibits the transmembrane influx of calcium ions into cardiac and vascular smooth muscle.

Pharmacodynamic effects

Perindopril/indapamide: In hypertensive patients regardless of age, the perindopril/ indapamide combination exerts a dose-dependent anti-hypertensive effect on diastolic and systolic arterial pressure whilst supine or standing. During clinical trials, the FORMULATION:

• One film-coated tablet of Triplixam 5mg/1.25mg/5mg contains 3.395mg perindopril equivalent to 5mg perindopril arginine, 1.25mg indapamide, EP and 6.935mg amlodipine besilate. EP and invalidation.

• Perindopril:

Perindopril is active in all grades of hypertension: mild to moderate or severe. A reduction in systolic and diastolic contains 3.395mg perindopril equivalent to 5mg perindopril arterial pressure is observed in the lying and standing position The antihypertensive activity after a single dose is maxima at between 4 and 6 hours and is maintained over 24 hours. One film-coated tablet of Triplixam 10mg/2.5mg/10mg contains 6.790mg perindopril equivalent to 10mg perindopril converting enzyme at 24 hours, approximately 80%.

after one month and is maintained without tachyphylaxis Withdrawal of treatment has no rebound effect on hypertension.

Perindopril has vasodilatory properties and restores elasticity of the main arterial trunks, corrects histomorphometric Pharmacodynamics
Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM)

of the main arterial trunks, corrects histomorphometric changes in resistance arteries and produces a reduction in

a chlorosulphamoyl diuretic and amlodipine, a calcium ion with a thiazide diuretic decreases the hypokalemia risk associated with the diuretic alone.

Indanamide:

Indapamide, as monotherapy, has an antihypertensive effective which lasts for 24 hours. This effect occurs at doses at which

the diuretic properties are minimal.
Its antihypertensive action is proportional to an improve in arterial compliance and a reduction in total and arteriolar

peripheral vascular resistance. Indapamide reduces left ventricular hypertrophy.

When a dose of thiazide diuretic and thiazide-related diuretics is exceeded, the antihypertensive effect reaches a plateau whereas the adverse effects continue to increase. If the treatment is ineffective, the dose should not be increased.

- Furthermore, it has been shown that in the short-term. mid-term and long-term in hypertensive patients, indapamide:
 • has no effect on lipid metabolism: triglycerides, LDL-
- cholesterol and HDI -cholesterol has no effect on carbohydrate metabolism, even in diabetic
- hypertensive patients

Amlodipine:

The mechanism of the antihynertensive action of amlodining is due to a direct relaxant effect on vascular smooth muscle. The precise mechanism by which amlodipine relieves angina has not been fully determined but amlodipine reduces tota ischemic burden by the following two actions:

Amlodipine dilates peripheral arterioles and thus, reduces the total peripheral resistance (afterload) against which the heart works. Since the heart rate remains stable, this unloading of the heart reduces myocardial energy consumption and oxyger

The mechanism of action of amlodipine also probably involves dilatation of the main coronary arteries and coronary afterload. arterioles, both in normal and ischemic regions. This dilatation studies carried out on patients with cardiac insufficiency have coronary artery spasm (Prinzmetal's or variant angina).

In patients with hypertension, once daily dosing provides clinically significant reductions of blood pressure in both the • an increase in cardiac output and an improvement in the cardiac index,

supine and standing positions throughout the 24-hour interval. Due to the slow onset of action, acute hypotension is not a feature of amlodipine administration. Amlodinine has not been associated with any adverse

netabolic effects or changes in plasma lipids and is suitable

for use in patients with asthma, diabetes, and gout.

Pharmacokinetic

Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM):

The co-administration of perindopril/indapamide and

Absorption and bioavailability: After oral administration, the absorption of perindopril is rapid and the peak concentration is achieved within 1 hour (perindopril is a prodrug and perindopril at the active metabolite). The plasma half-life of perindopril is equal to 1 hour. As ingestion of food decreases conversion to perindoprilat, hence bioavailability, perindopril arginine should be administered orally in a single daily dose in the morning before a meal.

Distribution: The volume of distribution is approximately 0.2 L/kg for unbound perindoprilat. Protein binding of perindoprilat to plasma proteins is 20%, principally to angiotensin converting enzyme, but is concentration

Biotransformation: Perindopril is a prodrug. Twenty-seven percent of the administered perindopril dose reaches the loodstream as the active metabolite perindoprilat. In addition to active perindoprilat, perindopril yields five metabolites, all inactive. The peak plasma concentration of perindoprilat is achieved within 3 to 4 hours.
Elimination: Perindoprilat is eliminated in the urine and the

terminal half-life of the unbound fraction is approximately 17 hours, resulting in steady-state within 4 days.
Linearity/non-linearity: It has been demonstrated a linear relationship between the dose of perindopril and its plasma

Special Populations

- *Elderly:* Elimination of perindoprilat is decreased in the elderly, and also in patients with heart or renal failure.
- Renal impairment: Dosage adjustment in renal insufficiency is desirable depending on the degree of impairment (creatinine clearance).
- In case of dialysis: clearance of perindoprilat is equal to
- In patients with cirrhosis: Perindopril pharmacokinetics is **CONTRAINDICATIONS:** modified; hepatic clearance of the parent molecule is reduced by half. However, the quantity of perindoprilat formed is not reduced and therefore no dosage adjustment

Absorption: Indapamide is rapidly and completely absorbed from the digestive tract.

The peak plasma level is reached in humans approximately one hour after oral administration of the product. Distribution: Plasma protein binding is 79%.

Metabolism and Elimination: The elimination half-life is

between 14 and 24 hours (average 18 hours). Repeated administration does not produce accumulation limination is mainly in the urine (70% of the dose) and feces

(22%) in the form of inactive metabolites. he pharmacokinetics is unchanged in patients with renal

insufficiency. Amlodinine:

Absorption and Bioavailability: After oral administration of therapeutic doses, amlodipine is well absorbed with peak blood levels between 6-12 hours post dose. Absolute vailability has been estimated to be between 64 and

The bioavailability of amlodipine is not affected by food

intake.
Distribution: The volume of distribution is approximately 21 L/kg. In vitro studies have shown that approximately 97.5% of circulating amlodipine is bound to plasma proteins Metabolism: Amlodipine is extensively metabolised by the liver to inactive metabolites with 10% of the parent compound and 60% of metabolites excreted in the urine.
Elimination: The terminal plasma elimination half-life is about

35-50 hours and is consistent with once daily dosing. Special populations:

Use in the elderly: the time to reach peak plasma concentrations of amlodipine is similar in elderly and younger subjects. Amodipine clearance tends to be SPECIAL WARNINGS AND PRECAUTIONS: ed with resulting increases in AUC and elimination half-life in elderly patients. Increases in AUC and elimination nalf-life in patients with congestive heart failure were as arginine + Indapamide + Amlodipine (TRIPLIXAM). expected for the patient age group studied.

 Use in patients with impaired hepatic function: Very limited clinical data are available regarding amlodipine administration in patients with hepatic impairment. Patients with hepatic insufficiency have decreased clearance of amlodipine resulting in a longer half-life and an increase in AUC of approximately 40-60%.

INDICATION:

Perindonril arginine + Indanamide + Amlodinine (TRIPLIXAM) is indicated as substitution therapy for treatment of essential hypertension, in patients already controlled with perindopril/indapamide fixed dose ombination and amlodipine, taken at the same dose level.

DOSAGE AND ADMINISTRATION:

Posology
One Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM) film-coated tablet per day as a single dose,

ACE-inhibitors and angiotensin II receptor blockers should preferably to be taken in the morning and before a meal. not be used concomitantly in patients with diabetic The fixed dose combination is not suitable for initial therapy. nephropathy.

If a change of the posology is required, titration should be

Special population
• Renal impairment: In severe renal impairment (creatinine clearance below 30 mL/min), treatment is contraindicated. In natients with moderate renal impairment (creatinine clearance 30-60 mL/min), Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM) at the dose 10mg/2.5mg/10mg is contraindicated. It is recommended start treatment with the adequate dosage of the free Usual medical follow-up will include frequent monitoring

of creatinine and potassium.
Concomitant use of perindopril with aliskiren is contraindicated in patients with renal impairment

 $(GFR < 60 \text{ ml/min/1.73 m}^2).$ Hepatic impairment: In severe hepatic impairment, Perindopril arginine + Indapamide + Amlodipine

(TRIPLIXAM) is contraindicated. in patients with mild to moderate hepatic impairment, Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM) should be administrated with caution, as dosage recommendations for amlodipine in these patients have not been established

Elderly: Elimination of perindoprilat is decreased in the Elderly can be treated with Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM) according to renal function.

 Pediatric population: The safety and efficacy of Perindonril arginine + Indapamide + Amlodipine (TRIPLIXAM) in children and adolescents have not been established. No data are available

Method of administration Oral use.

- Dialysis patients
 Patients with untreated decompensated heart failure Severe renal impairment (creatinine clearance below
- Moderate renal impairment (creatinine clearance below 60 mL/min) for Perindopril arginine + Indapamide + Amlodipine **(TRIPLIXAM)** doses containing 10mg/2.5mg of perindopril/indapamide combination (*i.e.*, Perindopril nine + Indapamide + Amlodipine (TRIPLIXAM) 10mg/2.5mg/10mg)

 • Hypersensitivity to the active substances, to other
- sulfonamides, to dihydropyridine derivatives, any other ACE-inhibitor or to any of the excipients.

 History of angioedema (Quincke's edema) associated with
- previous ACF inhibitor therapy
- Second and third trimesters of pregnancy
- Henatic encephalopathy
- Severe hepatic impairment
- Hypokalemia Severe hypotension
- Shock, including cardiogenic shock
 Obstruction of the outflow-tract of the left ventricle
- (e.g. high grade aortic stenosis) Hemodynamically unstable heart failure after acute
- mvocardial infarction Concomitant use of Perindonril arginine + Indanamide + dipine (TRIPLIXAM) with aliskiren-containing products in patients with diabetes mellitus or rena mpairment ($\dot{G}FR < 60 \text{mL/min}/1.73 \text{m}^2$)
- Concomitant use with sacubitril/valsartan. Triplixam must not be initiated earlier than 36 hours after the last dose of sacubitril/valsartan
- Extracorporeal treatments leading to contact of blood with negatively charged surfaces Significant bilateral renal artery stenosis or stenosis of the artery to a single functioning kidney

All warnings related to each component, as listed below, should apply also to the fixed combination of Perindopril

Special warnings

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<u>Lithium</u>
The combination of lithium and the combination of perindopril/indapamide is usually not recommended. 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, hyperkalemia and decreased renal function (including acute renal failure). Dual blockade of

recommended. If dual blockade therapy is considered absolutely necessary subject to frequent close monitoring of renal function. electrolytes and blood pressure.

Potassium-sparing drugs, potassium supplements or

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The combination of perindopril and potassium-sparing drugs. substitutes is usually not recommended.

Neutropenia/agranulocytosis/thrombocytopenia/anemia Neutropenia/agranulocytosis, thrombocytopenia and anemia have been reported in patients receiving ACE inhibitors. In patients with normal renal function and no other complicating factors, neutropenia occurs rarely. Perindopril should be used with extreme caution in patients with collagen vascular disease, immunosuppressant therapy, treatment with to alternative anti-hypertensive treatments which have an allopuring or procainamide or a combination of these complicating factors, especially if there is pre-existing impaired pread function. Some of these patients developed serious be stopped immediately, and, if appropriate, alternative infections which in a few instances did not respond to therapy should be started. intensive antibiotic therapy. If perindopril is used in sucl patients, periodical monitoring of white blood cell counts is advised and patients should be instructed to report any sign of infection (e.g. sore throat, fever).

Renovascular hypertension
There is an increased risk of hypotension and renal insufficiency when patient with bilateral renal artery stenosis or stenosis of the artery to a single functioning kidney are treated with ACE inhibitors. Treatment with diuretics may be a contributory factor Loss of renal function may occur with only minor changes in serum creatinine even in patients with unilateral renal artery stenosis.

Hypersensitivity/angioedema

ema of the face, extremities, lips, tongue, glottis and/ or larynx has been reported rarely in patients treated with angiotensin converting enzyme inhibitors, including perindopril. This may occur at any time during treatment. In such cases perindopril should be discontinued promptly and appropriate monitoring should be instituted to ensure complete resolution of symptoms prior to dismissing the patient. In those instances where swelling has been confined to the face and lips the condition generally resolved without treatment, although antihistamines have been useful in

Angioedema associated with laryngeal edema may be fatal. Where there is involvement of the tongue, glottis or larynx, likely to cause airway obstruction, appropriate therapy, which may include subcutaneous epinephrine solution 1:1000 (0.3 mL to 0.5 mL) and/or measures to ensure a patent airway, should be administered promptly.

Black patients receiving ACE inhibitors have been reported

to have a higher incidence of angioedema compared to Patients with a history of angioedema unrelated to ACE

inhibitor therapy may be at increased risk of angioedema while receiving an ACE inhibitor. Intestinal angioedema has been reported rarely in patients treated with ACF inhibitors. These patients presented with abdominal pain (with or without nausea or vomiting); in some cases, there was no prior facial angioedema and C-1 esterase levels were normal. The angioedema was diagnosed by procedures including abdominal CT scan, or ultrasound or at surgery and symptoms resolved after stopping the ACE inhibitor. Intestinal angioedema should be included in the

differential diagnosis of patients on ACE inhibitors presenting The combination of perindopril with sacubitril/valsartan is contraindicated due to the increased risk of angioedema Sacubitril/valsartan must not be initiated until 36 hours afte taking the last dose of perindopril therapy. If treatment with sacubitril/valsartan is stopped, perindopril therapy must not be initiated until 36 hours after the last dose of sacubitril valsartan. Concomitant use of ACE inhibitors with NER inhibitors (e.g. racecadotril) mTOR inhibitors (e.g. sirolimus everolimus, temsirolimus) and gliptins (e.g. linagliptin, saxagliptin, sitagliptin, vildagliptin) may lead to an increased risk of angioedema (e.g. swelling of the airways or tongue, with or without respiratory impairment). Caution should be used when starting racecadotril, mTOR inhibitors (e.g. sirolimus, everolimus, temsirolimus) and gliptins (e.g. linagliptin, saxagliptin, sitagliptin, vildagliptin) in a patient already taking an ACE inhibitor.

Anaphylactoid reactions during desensitization

There have been isolated reports of patients experiencing sustained, life-threatening anaphylactoid reactions while receiving ACE inhibitors during desensitization treatmen with hymenoptera (bees, wasps) venom. ACE inhibitors should be used with caution in allergic patients treated with desensitization, and avoided in those undergoing venom immunotherapy However these reactions could be prevented by temporary withdrawal of ACE inhibitor for at least 24 hours before treatment in patients who require both ACE inhibitors and desensitization

Anaphylactoid reactions during LDL apheresis Rarely, patients receiving ACE inhibitors during low density lipoprotein (LDL)-apheresis with dextran sulfate have experienced life-threatening anaphylactoid reactions. These reactions were avoided by temporarily withholding ACEinhibitor therapy prior to each apheresis.

Hemodialysis patients

Anaphylactoid reactions have been reported in patients dialyzed with high-flux membranes (e.g., AN 69®) and treated concomitantly with an ACE inhibitor. In these patients consideration should be given to using a different type of dialysis membrane or a different class of antihypertensive agent.

Primary aldosteronism
Patients with primary by

respond to anti-hypertensive drugs acting through inhibition of the renin-angiotensin system. Therefore, the use of this product is not recommended.

ACE inhibitors should not be initiated during pregnancy Unless continued ACE inhibitor therapy is considered essential, patients planning pregnancy should be changed established safety profile for use in pregnancy. When

Hepatic encephalopathy

When liver function is impaired, thiazide diuretics and thiazide-related diuretics may cause, particularly in case of electrolyte imbalance, hepatic encephalopathy which can progress to coma. Administration of the diuretic should be stopped immediately if this occurs.

Photosensitivity

sitivity reactions have been reported with thiazides and related thiazides diuretics. If photosensitivity reaction occurs during treatment, it is recommended to stop the treatment. If a re-administration of the diuretic is deemed necessary, it is recommended to protect exposed areas to the sun or to artificial UVA.

Precautions for use Renal function

In cases of severe renal impairment (creatinine clearance)

 30 mL/min), treatment is contraindicated.
 For patients with a moderate renal impairment (creatining) clearance < 60 mL/min), treatment is contraindicated with Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM) doses containing 10mg/2.5mg of perindopril/ indapamide combination (i.e., Perindopril arginine + ndapamide + Amlodipine (TRIPLIXAM) 10mg/2.5mg/

5mg and 10mg/2.5mg/10mg). In certain hypertensive patients without pre-existing apparent renal lesions and for whom renal blood tests show functional renal insufficiency, treatment should be stopped and possibly restarted either at a low dose or with one constituent only. In these patients' usual medical follow-up will include frequent monitoring of potassium and creatinine, after two weeks of treatment and then every two months during therapeutic stability period. Renal failure has been reported mainly in patients with severe heart failure or underlying renal failure including renal

he drug is usually not recommended in case of bilateral renal artery stenosis or a single functioning kidney.

 Risk of arterial hypotension and/or renal insufficiency (in cases of cardiac insufficiency, water and electrolyte) depletion, etc.): Marked stimulation of the renir angiotensin-aldosterone system has been observed with perindopril particularly during marked water and electrolyte depletions (strict sodium restricted diet or prolonged diuretic treatment), in patients whose blood pres nitially low, in cases of renal artery stenosis, congestive

heart failure or cirrhosis with edema and ascites. The blocking of this system with an angiotensin converting enzyme inhibitor may therefore cause, particularly at the time of the first administration and during the first two weeks of treatment, a sudden drop in blood pressure and or an increase in plasma levels of creatinine, showing a functional renal insufficiency. Occasionally this can be acute in onset, although rare, and with a variable time to onset. In such cases, the treatment should then be initiated at a lower dose and increased progressively. In patients with ischemic heart or cerebrovascular disease an excessive fall in blood pressure could result in a myocardial infarction or cerebrovascular accident.

 Thiazide diuretics and thiazide-related diuretics are only fully effective when renal function is normal or only slightly impaired (creatinine levels lower than approximately 25mg/L i e 220 umol/L for an adult)

n the elderly the value of plasma creatinine levels should be adjusted in relation to age, weight and gender. Hypovolemia, secondary to the loss of water and sodium caused by the diuretic at the start of treatment, causes a reduction in glomerular filtration. It may result in an ncrease in blood urea and creatinine levels. This transitory inctional renal insufficiency is of no adverse consequence in patients with normal renal function but may however

worsen a pre-existing renal impairment.

Amlodipine may be used at normal doses in patients with renal failure. Changes in amlodipine plasma concentrations Plasma magnesium:

are not correlated with degree of renal impairment.
The effect of the combination Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM) has not been which may result in hypomagnaesemia. tested in renal dysfunction. In renal impairment, Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM) doses should respect those of the individual components taken separately

with renal artery stenosis). Therefore, systematic testing should be carried out for clinical signs of water and suspected renal artery stenosis, treatment should be started sudden onset of hypotension.

electrolyte depletion, which may occur with an intercurrent—in a hospital setting at a low dose and renal function and episode of diarrhea or vomiting. Regular monitoring of plasma electrolytes should be carried out in such patients. Marked hypotension may require the implementation of reversed when treatment was stopped

satisfactory blood volume and blood pressure, treatment can be started again either at a reduced dose or with only one of the constituents.

Reduction in sodium levels can be initially asymptomatic and regular testing is therefore essential. Testing should be more frequent in elderly and cirrhotic patients.

Any diuretic treatment may cause hyponatremia, sometimes with very serious consequences. Hyponatremia with hypovolemia may be responsible of of chloride ions may lead to secondary compensatory

metabolic alkalosis: the incidence and degree of this effect

are slight.

levels should be carried out.

Potassium levels The combination of indapamide with perindopril and Cardiac failure/severe cardiac insufficiency amlodipine does not prevent the onset of hypokalemia particularly in diabetic patients or in patients with renal in a long-term, placebo controlled study in patients with with a diuretic, regular monitoring of plasma potassium

significant in patients with normal renal function. Risk 70 years), diabetes mellitus, intercurrent events, in particular dehydration, acute cardiac decompensation, metabolic acidosis and concomitant use of potassiumsparing diuretics (e.g., spironolactone, eplerenone, riamterene, or amiloride), potassium supplements or notassium-containing salt substitutes, or those natients. king other drugs associated with increases in serum potassium (e.g. heparin, co-trimoxazole also known as trimethonrim/sulfamethoxazole) and especially aldosterone antagonists or angiotensin-receptor blockers. The use of potassium supplements, potassium-sparing diuretics, or potassium-containing salt substitutes particularly in patients with impaired renal function may lead to a significant increase in serum potassium. Hyperkalemia can cause serious, sometimes fatal arrhythmias, Potassiumsparing diuretics and angiotensin-receptor blockers should be used with caution in patients receiving ACE inhibitors. and serum potassium and renal function should be monitored. If concomitant use of the above-mentioned agents is deemed appropriate, they should be used with perindopril is apparently less effective in lowering blood caution and with frequent monitoring of serum potassium.

Potassium depletion with hypokalemia is a major risk with thiazide diuretics and thiazide-related diuretics. Hypokalaemia may cause muscle disorders. Cases of Rhabdomyolysis have been reported, mainly in the context of severe hypokalaemia. The risk of onset of lowered potassium levels (< 3.4 mmol/l) should be prevented in some high risk populations such as elderly and/or multiple medications, cirrhotic patients with edema and ascites, coronary patients and patients with heart failure. In such cases hypokalemia increases the cardiac toxicity of cardiac glycosides and the risk of rhythm disorder Subjects presenting with a long QT interval are also at risk, whether the origin is congenital or jatrogenic. Hypokalemia. as with bradycardia, acts as a factor which favors the onset of severe rhythm disorders, in particular torsades de pointes, which may be fatal. In all cases more frequent testing of potassium levels is necessary. The first measurement of plasma potassium levels should be carried out during the first week following the start of treatment. If low potassium levels are detected, correction is required.

Hypokalaemia found in association with low serum magnesium concentration can be refractory to treatment unless serum magnesium is corrected.

alcium levels

Thiazide diuretics and thiazide-related diuretics may reduce urinary excretion of calcium and cause a mild and transient increase in plasma calcium levels. Markedly raised levels of calcium may be related to undiagnosed hyperparathyroidism. In such cases the treatment should be stopped before investigating the parathyroid function.

Renovascular hypertension
The treatment for renovascular hypertension is revascularization. Nonetheless, angiotensin converting enzyme inhibitors can be beneficial in patients presenting with

potassium levels should be monitored, since some patients have developed a functional renal insufficiency which was

marked hypotension may require the imposition of an intravenous infusion of isotonic saline.

Transient hypotension is not a contraindication to A dry cough has been reported with the use of angiotensis and the intravenous inhibitors. It is characterized by its converting enzyme inhibitors. It is characterized by its persistence and by its disappearance when treatment is withdrawn. An iatrogenic etiology should be considered in the event of this symptom. If the prescription of an angiotensing converting enzyme inhibitor is still preferred, continuation of

The risk of hypotension exists in all patients but particular care should be taken in patients with ischemic heart disease or cerebral circulatory insufficiency, with treatment being started at a low dose.

<u>Hypertensive crisis</u>
The safety and efficacy of amlodipine in hypertensive crisis has not been established

failure. As with any antihypertensive agent in combination severe heart failure (NYHA class III and IV) the reported incidence of pulmonary edema was higher in the amlodipine treated group than in the placebo group. Calcium channe • Flevations in serum potassium have been observed in some blockers, including amlodipine, should be used with caution patients treated with ACE inhibitors, including perindopril.,
ACE inhibitors can cause hyperkalaemia because they

inhibit the release of aldosterone. The effect is usually not
In patients with severe cardiac insufficiency (grade IV) treatment should be started under medical superv factors for the development of hyperkalemia include those a reduced initial dose. Treatment with beta-blockers in with renal insufficiency, worsening of renal function, age hypertensive patients with coronary insufficiency should not be stopped: the ACE inhibitor should be added to the

> Aortic or mitral valve stenosis / hypertrophic cardiomyopathy ACE inhibitors should be used with caution in patient with an obstruction in the outflow tract of the left ventricle

In patients with insulin dependent diabetes mellitus

(spontaneous tendency to increased levels of potassium) treatment should be started under medical supervision with a reduced initial dose. The glycemia levels should be closely monitored in diabetic

patients previously treated with oral antidiabetic drugs or insulin, namely during the first month of treatment with an ACF inhibitor Monitoring of blood glucose is important in diabetic patients

particularly when potassium levels are low. Ethnic differences

pressure in black people than in non-blacks, possibly because of a higher prevalence of low-renin states in the black hypertensive population

Surgery/anesthesia Angiotensin converting enzyme inhibitors can cause hypotension in cases of anesthesia, especially when the anesthetic administered is an agent with hypotensive

potential. malnourished subjects, whether or not they are taking It is therefore recommended that treatment with long-acting angiotensin converting enzyme inhibitors such as perindopri should be discontinued where possible one day before

surgery.

patients.

<u>Hepatic impairment</u> Rarely, ACE inhibitors have been associated with a syndrome that starts with cholestatic jaundice and progresses to fulminant hepatic necrosis and (sometimes) death. The mechanism of this syndrome is not understood. Patients receiving ACE inhibitors who develop jaundice or market elevations of hepatic enzymes should discontinue the ACE inhibitor and receive appropriate medical follow-up.

The half-life of amlodinine is prolonged and AUC values are recommendations have not been established. Amlodipine should therefore be initiated at the lower end of the dosing range and caution should be used, both on initial treatment and when increasing the dose. Slow dose titration and careful monitoring may be required in patients with severe hepatic The effect of the combination Perindopril arginine

Indapamide + Amlodipine (TRIPLIXAM) has not been tested

in hepatic dysfunction. Taking into account the effect of each individual component of this combination, Perindopril arginine

Indapamide + Amlodipine (TRIPLIXAM) is contraindicated

in patients with severe hepatic impairment, and cautior should be exercised in patients with mild to moderate hepatic impairment <u>Uric acid</u> Tendency to gout attacks may be increased in hyperuricemia

Hypotension and water and sodium depletion

There is a risk of sudden hypotension in the presence of pre-existing sodium depletion (in particular in individuals pre-existing sodium deple

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Level of sodium

Triplixam contains less than 1 mmol sodium (23mg) per tablet, i.e. essentially 'sodium-free'

Choroidal effusion, acute myopia and secondary angle-closure

Choroidal etiusion, acute imposses.

glaucoma
Sulfonamide or sulfonamide derivative drugs can cause an idiosyncratic reaction resulting in choroidal effusion with visual field defect, transient myopia and acute angle-closure

transient myop acuity or ocular pain and typically occur within hours to weeks can lead to permanent vision loss. The primary treatment is to discontinue drug intake as rapidly as possible. Prompt medical or surgical treatments may need to be considered if the intraocular pressure remains uncontrolled. Risk factors for developing acute angle-closure glaucoma may include a history of sulfonamide or penicillin allergy.

other forms of interaction

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

Animal studies do not indicate direct or indirect harmful effects blockers or aliskiren is associated with a higher frequency of adverse events such as hypotension, hyperkalaemia and decreased renal function (including acute renal failure)

The safety of amilodipine in human pregnancy has not been compared to the use of a single BAAS-acting agent (see compared to the use of a single RAAS-acting agent (see sections 4.3, 4.4 and 5.1).

Drugs increasing the risk of angioedema: Concomitant use of ACE inhibitors with sacubitril/valsartan is contraindicated as this increases the risk of angioedema (see section 4.3 and 4.4). Sacubitril/valsartan must not be started until 36 hours after taking the last dose of perindopril therapy. Perindopril therapy must not be started until 36 hours after the last dose of sacubitril/valsartan (see sections 4.3 and 4.4). Concomitant use of ACE inhibitors with racecadotril, mTOR inhibitors (e.g. sirolimus, everolimus, temsirolimus) and gliptins (e.g. linagliptin, saxagliptin, sitagliptin, vildagliptin) may lead to an increased risk for angioedema (see section 4.4).

Drugs inducing hyperkalaemia:

limits, hyperkalaemia may occur in some patients treated with Triplixam. Some drugs or therapeutic classes may increase the occurrence of hyperkalaemia: aliskiren, potassium salts, potassium-sparing diuretics (e.g. spironolactone, triamterene potassium-sparing duretics (e.g. spironolactone, triamterene or amiloride), ACE inhibitors, angiotensin-II receptors antagonists, NSAIDs, heparins, immunosuppressant agents such as ciclosporin or tacrolimus, trimethoprim and cotrisciples of the control of the c is known to act as a potassium-sparing diuretic like amiloride.

The combination of these drugs increases the risk of The effect of amlodipine on infants is unknown. is known to act as a potation.

The combination of these drugs increases the risk of hyperkalaemia. Therefore, the combination of Triplixam with the above-mentioned drugs is not recommended. If concomitant use is indicated, they should be used with caution and with frequent monitoring of serum potassium

Fertility

Common to perindopril and indapamide:

Reproductive toxicity studies showed no effect on fertility in female and male rats. No effects on human fertility are

Aliskiren: In diabetic or impaired renal patients, risk of hyperkalaemia, worsening of renal function and cardiovascular Reversible bi morbidity and mortality increase.

(e.g. polyacrylonitril membranes) and low density lipoprotein

Driving and using machines: (e.g. polyacrylonitril memoranes) and low defisity inpuriously apheresis with dextran sulphate due to increased risk of severe anaphylactoid reactions (see section 4.3). If such treatment + Amlodipine (TRIPLIXAM) on the ability to drive and use type of dialysis membrane or a different class of antihypertensive agent.

Children and adolescents:

combination product on pregnancy and lactation, Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM) is not recommended during the first trimester of pregnancy.

DRIIG INTERACTIONS. Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM) is contraindicated during the second and third trimesters of

Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM) is not recommended during lactation. A decision should therefore be made whether to discontinue nursing or to discontinue Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM) taking account the importance of this therapy

The use of ACE inhibitors is not recommended during the first trimester of pregnancy. The use of ACE inhibitors is contraindicated during the second and

In the elderly increase of the dosage of amlodipine should take place with care.

Excipients

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 (racecadotril) or avoid rejection of tra ncrease in risk cannot be excluded. Unless continued ACF inhibitor therapy is considered essential, patients planning pregnancy should be changed to alternative anti-hypertensive in pregnancy. When pregnancy is diagnosed, treatment with ACE inhibitors should be stopped immediately, and, if

acuity or ocular pain and typically occur within hours to weeks of drug initiation. Untreated acute angle-closure glaucoma solved the promote the proposed typical solved to promote the p second trimester of pregnancy, ultrasound check of renal function and skull is recommended

Infants whose mothers have taken ACE inhibitors should be closely observed for hypotension

Indapamide:

There are no or limited amount of data (less than 300 pregnancy outcomes) from the use of indapamide in pregnant women.

• methadone (used to treat addiction),
• methadone (used to treat addiction),
• medicines used for heart rhythm problems (e.g. dofetilide, Athletes
Athletes should note that this product contains an active Prolonged exposure to thiazide during the third trimester of Prolonged exposure to thiazide during the third trimester of Prolonged exposure and reduce maternal plasma volume as well as Athletes should note that this product contains an active substance which may cause a positive reaction in doping tests.

Interaction with other medicinal products and

Prolongeu exposure to unazine during the united annotes of pregnancy can reduce maternal plasma volume as well as uteroplacental blood flow, which may cause a feto-placental uteroplacental blood flow, which may cause a feto-placental blood flow. schemia and growth retardation. Moreover, rare cases of

observed at high doses

Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM)

Perindonril·

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

Indapamide.

There is insufficient information on the excretion of indapamide/ as inducing nyperkalaemia:

ough serum potassium usually remains within normal
s hyperkalaemia may occur in some natients treated with
s hyperkalaemia may occur in some natients treated with newborns/infants cannot be excluded. Indapamide is closely related to thiazide diuretics which have

moxazole (trimethoprim/sulfamethoxazole), as trimethoprim maternal dose received by the infant has been estimated with

Reversible biochemical changes in the head of spermatozo morbidity and mortality increase.

Extracorporeal treatments: Extracorporeal treatments leading to contact of blood with negatively charged surfaces such as dialysis or haemofiltration with certain high-flux membranes have been reported in some patients treated by calcium channel blockers. Clinical data are insufficient regarding the potential effect of amlodipine on fertility. In one rat study, adverse effects were found on male fertility.

machines have been performed. Perindopril and indapamide have no influence on the ability to drive and use machines but individual reactions related to low blood pressure may occur in some patients.

Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM) should not be given to children and adolescents.

Amlodipine can have minor or moderate influence on the ability to drive and use machines. If patients suffer from dizziness, Pregnancy and Breastfeeding:
Given the effects of the individual components in this may be impaired. As a result, the ability to drive or operate headache, fatique, weariness or nausea, the ability to react

DRUG INTERACTIONS:

Do not take aliskiren (used to treat hypertension) if patient has diabetes or kidney problems. Avoid Perindopril arginine + Indapamide + Amlodipine

(TRIPLIXAM) with: • lithium (used to treat some mental disorders such as mania,

- manic depressive illness and recurrent depression). potassium-sparing drugs (e.g. triamterene, amiloride), potassium supplements or potassium-containing salt substitutes, other drugs which can increase potassium in your body (such as heparin, a medicine used to thin blood to prevent clots; trimethoprim and co-trimoxazole also known as trimethoprim/sulfamethoxazole for infection
- caused by bacteria), dantrolene (infusion) (used to treat malignant hyperthermia during anesthesia (symptoms including very high fever and

 medicines, which are most often used to treat diarrhea (racecadotril) or avoid rejection of transplanted organs (sirolimus, everolimus, temsirolimus and other drugs • medicines for the treatment of cancer.

belonging to the class of so-called mTor inhibitors).

• sacubitril/valsartan (used to treat long-term heart failure). eatments which have an established safety profile for use • other medicines used to treat high blood pressure: sin-converting-enzyme inhibitor and angiotensin receptor blockers.

Special care may be required with:

 other medicines for treating high blood pressure, including angiotensin II receptor blocker (ARB), aliskiren, or diuretics (medicines which increase the amount of urine produced by the kidneys).

otassium-sparing drugs used in the treatment of heart failure: eplerenone and spironolactone at doses between 12.5mg to 50mg by day,

- anesthetic medicines,iodinated contrast agent,
- bepridil (used to treat angina pectoris).
- ibutilide, bretylium, cisapride, diphemanil, procainamide quinidine, hydroquinidine, disopyramide, amiodarone, sotalol, verapamil, diltiazem (heart medicines),
- digoxin or other cardiac glycosides (for the treatment of heart problems)
- antibiotics used to treat bacterial infections (e.g. rifampicin, erythromycin, clarithromycin, sparfloxacin, moxifloxacin,
- antifungal medicines (e.g. itraconazole, ketoconazole amphotericin B by injection
 allopurinol (for the treatment of gout),
- antihistamines used to treat allergic reactions, such as hay fever (e.g. mizolastine, terfenadine, astemizole,
 corticosteroids used to treat various conditions including severe asthma and rheumatoid arthritis and non-steroidal anti-inflammatory drugs (e.g. ibuprofen) or high dose salicylates (e.g. acetylsalicylic acid (a substance present in many medicines used to relieve pain and lower fever, as well as to prevent blood clotting),
 • immunosuppressants (medicines used to control your body's
- immune response for the treatment of auto-immune disorders or following transplant surgery (e.g. ciclosporin, • tetracosactide (to treat Crohn's disease),
- gold salts, especially with intravenous administration (used to treat symptoms of rheumatoid arthritis),
- halofantrine (used to treat certain types of malaria).
- baclofen used to treat muscle stiffness in diseases such as multiple sclerosis,

Hypertonia

ropathy periphera

- medicines to treat diabetes such as insulin or metformin.
- calcium including calcium supple
 stimulant laxatives (e.g. senna),
- vincamine (used to treat symptomatic cognitive disorders in elderly including memory loss),
- medicines used to treat mental disorders such as depression. anxiety, schizophrenia (e.g. tricyclic antidepressants, antipsychotics, imipramine like antidepressants, neuroleptics such as amisulpride, sulpride, sultopride, tiapride, haloperidol, droperidol),
- pentamidine (used to treat pneumonia)
- ritonavir, indinavir, nelfinavir (protease inhibitors used to treat HIV)
- hypericum perforatum (St. John's wort), trimethoprim (for the treatment of infections).
- medicines used for the treatment of low blood pressure, shock or asthma (e.g. ephedrine, noradrenaline or adrenaline),
- nitroglycerin and other nitrates, or other vasodilators that may further reduce blood pressure.

Perindopril arginine + Indapamide + Amlodinine (TRIPLIXAM) with food and drink:

Grapefruit juice and grapefruit should not be consumed by people who are taking Perindopril arginine + Indapamide + Amlodipine (TRIPLIXAM). This is because grapefruit and grapefruit juice can lead to an increase in the blood levels of the active ingredient amlodipine, which can cause an unpredictable increase in the blood pressure lowering effect of this medicine.

ADVERSE DRUG REACTIONS:

Summary of the safety profile
The most commonly reported adverse reactions with perindopril, indapamide and amlodipine given separately are: hypokalaemia, dizziness, headache, paresthesia, somnolence, dysgeusia, visual impairment, diplopia, tinnitus, vertigo palpitations, flushing, hypotension (and effects related to hypotension), cough, dyspnea, gastro-intestinal disorders (abdominal pain, constipation, diarrhea, dyspepsia, nausea, vomiting, change of bowel habit), pruritus, rash, rash ular, muscle spasms, ankle swelling, asthenia edema and fatique

Tabulated list of adverse reactions
The following undesirable effects have been observed with perindopril, indapamide or amlodipine during treatment and

ranked under the following frequency: Very common (>1/10): common (>1/100 to <1/10): uncommon (\geq 1/1,000 to <1/100); rare (\geq 1/10,000 to <1/1,000); very rare (<1/10,000); not known (cannot be estimated from the available data).

MedDRA	Undesirable Effects	Frequency			
System Organ Class		Perindopril	Indapamide	Amlodipine	
Infections and infestations	Rhinitis	Very rare	-	Uncommon	
Endocrine disorders	Syndrome of inappropriate antidiuretic hormone secretion (SIADH)	Rare	-		
Blood and	Eosinophilia	Uncommon*	-	-	
	Agranulocytosis	Very rare	Very rare	-	
	Aplastic anemia	-	Very rare		
	Pancytopenia	Very rare	-	-	
ymphatic System Disorders	Leukopenia	Very rare	Very rare	Very rare	
Oystelli Disorucis	Neutropenia	Very rare	-	-	
	Hemolytic anemia	Very rare	Very rare	-	
	Thrombocytopenia	Very rare	Very rare	Very rare	
mmune System Disorders	Hypersensitivity	-	Uncommon	Very rare	
	Hypokalemia	-	Common	-	
	Hypoglycemia	Uncommon*	-	-	
	Hyperkalemia reversible on discontinuation	Uncommon*	-	-	
letabolism and	Hyponatremia	Uncommon*	Uncommon		
Nutrition Disorders	Hypochloraemia	-	Rare	-	
71301 4013	Hypomagnesaemia	-	Rare	-	
	Hyperglycemia	-	-	Very rare	
	Hypercalcemia	-	Very rare	-	
	Insomnia	-	-	Uncommon	
	Mood altered (including anxiety)	Uncommon	-	Uncommon	
Psychiatric disorders	Depression	Uncommon*		Uncommon	
	Sleep disorder	Uncommon	-	-	
	Confusional state	Very rare	-	Rare	
	Dizziness	Common		Common	
	Headache	Common	Rare	Common	
	Paresthesia	Common	Rare	Uncommon	
	Somnolence	Uncommon*		Common	
lervous System	Hypoesthesia	-	-	Uncommon	
disorders	Dysgeusia	Common	-	Uncommon	
	Tremor			Uncommon	
	Syncope	Uncommon*	Not known	Uncommon	

System Organ	Undooiyahla Effects		Frequency	
Class	Undesirable Effects	Perindopril	Indapamide	Amlodipine
Nervous System disorders	Extrapyramidal disorder (extrapyramidal syndrome)	-	-	Not known
	Stroke possibly secondary to excessive hypotension in high-risk patients	Very rare	-	-
	Possibility of onset of hepatic encephalopathy in case of hepatic insufficiency	-	Not known	-
	Visual impairment	Common	Not known	Common
	Acute-angle closure glaucoma	-	Not known	-
Eye Disorders	Choroidal effusion	-	Not known	-
	Diplopia	-	-	Common
	Myopia	-	Not known	-
	Vision blurred	-	Not known	-
ar and labyrinth isorders	Tinnitus Vertigo	Common	Rare	Uncommon
uisoruoro	Palpitations	Uncommon*	-	Common
	Tachycardia	Uncommon*	-	-
	Angina pectoris	Very rare	-	-
ardiac	Arrhythmia (including bradycardia, ventricular	Very rare	Very rare	Uncommon
isorders	tachycardia and atrial fibrillation)	very rare	very rare	Oncommon
	Myocardial infarction, possibly secondary to excessive hypotension in high risk patients	Very rare	-	Very rare
	Torsade de pointes (potentially fatal)	-	Not known	_
	Flushing	Rare	-	Common
Vascular	Hypotension (and effects related to hypotension)	Common	Very rare	Uncommon
isorders	Vasculitis	Uncommon*	-	Very rare
	Raynaud's phenomenon	Not known	-	-
espiratory,	Cough	Common	-	Uncommon
horacic and	Dyspnea	Common	-	Common
lediastinal isorders	Bronchospasm	Uncommon	-	-
1301 061 3	Eosinophilic pneumonia	Very rare	-	-
	Abdominal pain	Common	-	Common
	Constipation	Common	Rare	Common
	Diarrhea	Common	_	Common Common
	Dyspepsia Nausea	Common	Rare	Common
astro-intestinal	Vomiting	Common	Uncommon	Uncommon
Disorders	Dry mouth	Uncommon	Rare	Uncommon
	Change of bowel habit	-	-	Common
	Gingival hyperplasia		-	Very rare
	Pancreatitis	Very rare	Very rare	Very rare
	Gastritis	-	-	Very rare
lepato-biliary	Hepatitis	Very rare	Not known	Very rare
iepato-biliai y isorders	Jaundice	-	-	Very rare
	Hepatic function abnormal		Very rare	-
	Pruritus Rash	Common	-	Uncommon
		Common	-	Uncommon
	114011		Common	
	Rash maculopapular	Uncommon	Common	- Uncommon
	Rash maculopapular Urticaria	Uncommon	Very rare	
	Rash maculopapular Urticaria Angioedema	Uncommon Uncommon		Very rare
	Rash maculopapular Urticaria Angioedema Alopecia		Very rare Very rare	Very rare Uncommon
	Rash maculopapular Urticaria Angioedema	Uncommon -	Very rare	Very rare Uncommon Uncommon
	Rash maculopapular Urticaria Angioedema Alopecia Purpura	Uncommon -	Very rare Very rare	Very rare Uncommon Uncommon Uncommon
ubcutaneous	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration	Uncommon - - -	Very rare Very rare - Uncommon -	Very rare Uncommon Uncommon Uncommon Uncommon
ubcutaneous	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction	Uncommon - - -	Very rare Very rare - Uncommon Not known	Very rare Uncommon Uncommon Uncommon Uncommon
ubcutaneous	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation	Uncommon Uncommon - Uncommon* Rare	Very rare Very rare - Uncommon	Very rare Uncommon Uncommon Uncommon Uncommon Uncommon Uncommon
ubcutaneous	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid	Uncommon Uncommon - Uncommon* Rare Uncommon*	Very rare Very rare - Uncommon Not known	Very rare Uncommon Uncommon Uncommon Uncommon Uncommon Very rare -
ubcutaneous	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme	Uncommon Uncommon - Uncommon* Rare	Very rare Very rare - Uncommon Not known	Very rare Uncommon Uncommon Uncommon Uncommon Uncommon Very rare - Very rare
ubcutaneous	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome	Uncommon	Very rare Very rare - Uncommon Not known	Very rare Uncommon Uncommon Uncommon Uncommon Uncommon Very rare - Very rare Very rare
ubcutaneous	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis	Uncommon Uncommon - Uncommon* Rare Uncommon*	Very rare Very rare - Uncommon Not known Very rare - Very rare -	Very rare Uncommon Uncommon Uncommon Uncommon Uncommon Very rare Very rare Very rare Very rare Very rare
ubcutaneous	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis	Uncommon	Very rare Very rare - Uncommon Not known	Very rare Uncommon Uncommon Uncommon Uncommon Very rare Very rare Very rare Very rare Very rare Not known
ubcutaneous	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis Quincke's edema	Uncommon	Very rare Very rare - Uncommon Not known - Very rare - Very rare - Very rare	Very rare Uncommon Uncommon Uncommon Uncommon Very rare Very rare Very rare Very rare Very rare Not known Very rare
ubcutaneous	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis Quincke's edema Muscle spasms	Uncommon	Very rare Very rare - Uncommon Not known Very rare - Very rare -	Very rare Uncommon Uncommon Uncommon Uncommon Very rare Very rare Very rare Very rare Very rare Not known
ubcutaneous	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis Quincke's edema	Uncommon	Very rare Very rare - Uncommon Not known - Very rare - Very rare - Very rare	Very rare Uncommon Uncommon Uncommon Uncommon Very rare Very rare Very rare Very rare Very rare Not known Very rare Common
ubcutaneous issue Disorders	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis Quincke's edema Muscle spasms Ankle swelling	Uncommon	Very rare Very rare - Uncommon Not known - Very rare - Very rare - Very rare	Very rare Uncommon Uncommon Uncommon Uncommon Very rare Very rare Very rare Very rare Very rare Not known Very rare Common
ubcutaneous issue Disorders lusculoskeletal nd Connective	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis Quincke's edema Muscle spasms Ankle swelling Arthralgia	Uncommon	Very rare Very rare - Uncommon Not known - Very rare - Very rare - Not known	Very rare Uncommon Uncommon Uncommon Uncommon Very rare - Very rare Very rare Very rare Very rare Very rare Common Common Uncommon Uncommon Uncommon
ubcutaneous issue Disorders lusculoskeletal nd Connective	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis Quincke's edema Muscle spasms Ankle swelling Arthralgia Muscular weakness	Uncommon	Very rare Very rare - Uncommon Not known - Very rare - Very rare - Not known - Not known - Not known	Very rare Uncommon Uncommon Uncommon Uncommon Very rare - Very rare Very rare Very rare Very rare Very rare Common Common Uncommon Uncommon Uncommon
ubcutaneous issue Disorders fusculoskeletal and Connective	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis Quincke's edema Muscle spasms Ankle swelling Arthralgia Muscular weakness Myalgia	Uncommon - Uncommon* Rare Uncommon* Very rare Common - Uncommon* - Uncommon*	Very rare Very rare - Uncommon Not known - Very rare - Very rare - Not known - Not known Not known	Very rare Uncommon Uncommon Uncommon Uncommon Very rare Very rare Very rare Very rare Very rare Common Uncommon Uncommon Uncommon Uncommon Uncommon -
subcutaneous issue Disorders Musculoskeletal and Connective	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis Quincke's edema Muscle spasms Ankle swelling Arthralgia Muscular weakness Myalgia Rhabdomyolysis Back pain Possible worsening of pre-existing systemic	Uncommon - Uncommon* Rare Uncommon* Very rare Common - Uncommon* - Uncommon*	Very rare Very rare - Uncommon Not known Very rare - Very rare - Not known - Not known - Not known Not known Not known Not known -	Very rare Uncommon Uncommon Uncommon Uncommon Very rare Very rare Very rare Very rare Very rare Common Uncommon Uncommon Uncommon Uncommon Uncommon -
ubcutaneous issue Disorders fusculoskeletal and Connective	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis Quincke's edema Muscle spasms Ankle swelling Arthralgia Muscular weakness Myalgia Rhabdomyolysis Back pain Possible worsening of pre-existing systemic lupus erythematosus	Uncommon - Uncommon* Rare Uncommon* Very rare Common - Uncommon* - Uncommon*	Very rare Very rare - Uncommon Not known - Very rare - Very rare - Not known - Not known Not known	Very rare Uncommon Uncommon Uncommon Uncommon Very rare Very rare Very rare Very rare Not known Very rare Common Uncommon Uncommon Uncommon - Uncommon
subcutaneous issue Disorders Musculoskeletal and Connective	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis Quincke's edema Muscle spasms Ankle swelling Arthralgia Muscular weakness Myalgia Rhabdomyolysis Back pain Possible worsening of pre-existing systemic lupus erythematosus Micturition disorder	Uncommon - Uncommon* Rare Uncommon* Very rare Common - Uncommon* - Uncommon*	Very rare Very rare - Uncommon Not known Very rare - Very rare - Not known - Not known - Not known Not known Not known Not known -	Uncommon Uncommon Uncommon Uncommon Uncommon Uncommon Very rare Very rare Very rare Very rare Not known Very rare Common Uncommon - Uncommon - Uncommon - Uncommon - Uncommon
ubcutaneous issue Disorders fusculoskeletal ind Connective issue Disorders	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis Quincke's edema Muscle spasms Ankle swelling Arthralgia Muscular weakness Myalgia Rhabdomyolysis Back pain Possible worsening of pre-existing systemic lupus erythematosus Micturition disorder Nocturia	Uncommon - Uncommon* Rare Uncommon* Very rare Common - Uncommon * - Uncommon *	Very rare Very rare - Uncommon Not known Very rare - Very rare - Not known - Not known Not known Not known Not known Not known - Not known - Not known - Not known Not known	Very rare Uncommon Uncommon Uncommon Uncommon Uncommon Very rare Very rare Very rare Very rare Not known Very rare Common Uncommon - Uncommon - Uncommon Uncommon Uncommon Uncommon Uncommon Uncommon
dusculoskeletal and Connective issue Disorders	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis Quincke's edema Muscle spasms Ankle swelling Arthralgia Muscular weakness Myalgia Rhabdomyolysis Back pain Possible worsening of pre-existing systemic lupus erythematosus Micturition disorder Nocturia Pollakiuria	Uncommon	Very rare Very rare - Uncommon Not known Very rare - Very rare - Not known - Not known Not known Not known Not known Not known - Not known Not known	Very rare Uncommon Uncommon Uncommon Uncommon Uncommon Very rare Very rare Very rare Very rare Not known Very rare Common Uncommon - Uncommon - Uncommon Uncommon Uncommon Uncommon Uncommon Uncommon Uncommon Uncommon
kin and subcutaneous issue Disorders Musculoskeletal and Connective issue Disorders	Rash maculopapular Urticaria Angioedema Alopecia Purpura Skin discoloration Hyperhidrosis Exanthema Photosensitivity reaction Psoriasis aggravation Pemphigoid Erythema multiforme Stevens-Johnson Syndrome Exfoliative dermatitis Toxic epidermal necrolysis Quincke's edema Muscle spasms Ankle swelling Arthralgia Muscular weakness Myalgia Rhabdomyolysis Back pain Possible worsening of pre-existing systemic lupus erythematosus Micturition disorder Nocturia	Uncommon - Uncommon* Rare Uncommon* Very rare Common - Uncommon * - Uncommon *	Very rare Very rare - Uncommon Not known Very rare - Very rare - Not known - Not known Not known Not known Not known Not known - Not known - Not known - Not known Not known	Very rare Uncommon Uncommon Uncommon Uncommon Uncommon Very rare Very rare Very rare Very rare Not known Very rare Common Uncommon - Uncommon - Uncommon Uncommon Uncommon Uncommon Uncommon Uncommon

MedDRA	Undesirable Effects	Frequency			
System Organ Class		Perindopril	Indapamide	Amlodipine	
Reproductive System and Breast Disorders	Erectile dysfunction	Uncommon	Uncommon	Uncommon	
	Gynecomastia	-	-	Uncommon	
General Disorders and Administration Site Conditions	Asthenia	Common	-	Common	
	Fatigue	-	Rare	Common	
	Edema	-	-	Very commor	
	Chest pain	Uncommon*	-	Uncommon	
	Pain	-	-	Uncommon	
	Malaise	Uncommon*	-	Uncommon	
	Edema peripheral	Uncommon*	-	-	
	Pyrexia	Uncommon*	-	-	
	Weight increased	-	-	Uncommon	
Investigations	Weight decreased	-	-	Uncommon	
	Blood urea increased	Uncommon*	-	-	
	Blood creatinine increased	Uncommon*	-	-	
	Blood bilirubin increased	Rare	-	-	
	Hepatic enzyme increased	Rare	Not known	Very rare	
	Hemoglobin decreased and hematocrit decreased	Very rare	-	-	
	Electrocardiogram QT prolonged	-	Not known	-	
	Blood glucose increased	-	Not known	-	
	Blood uric acid increased	-	Not known	=	
Injury, poisoning and procedural complications	Fall	Uncommon *	-	-	

Description of selected adverse reactions

- Indapamide 1.5mg: Plasma potassium < 3.4 mmol/l was dose to make up for the forgotten dose.

seen in 10% of patients and < 3.2 mmol/l in 4% of patients after 4 to 6 weeks treatment. After 12 weeks treatment, the DISCONTINUATION OF TREATMENT: - Indapamide 2.5mg: Plasma potassium < 3.4 mmol/l was seen in 25% of patients and < 3.2 mmol/l in 10% of patients after 4 to 6 weeks treatment. After 12 weeks treatment the

mean fall in plasma potassium was 0.41 mmol/l.

Reporting of suspected adverse reactions
Reporting suspected adverse reactions after authorisation of
STORAGE CONDITION: the medicinal product is important. It allows continued Store at temperatures not exceeding 30°C. monitoring of the benefit/risk balance of the medicinal Keep this medicine out of the sight and reach of children. product. Healthcare professionals are asked to report any

Do not use this medicine after the expiry date which is stated listed in Appendix V.

OVERDOSE AND TREATMENT:

arginine + Indapamide + Amlodipine (TRIPLIXAM) in humans, you no longer use. These measures will help to protect the For perindopril/indapamide combination

Symptoms: The most likely adverse reaction in cases of PACKAGING: overdose is hypotension, sometimes associated with nausea. vomiting, cramps, dizziness, sleepiness, mental confusion, oliguria which may progress to anuria (due to hypovolemia). Salt and water disturbances (low sodium levels, low potassium levels) may occur.

Management: The first measures to be taken consist of rapidly **CAUTION:** eliminating the product(s) ingested by gastric lavage and/or Foods, Drugs, Devices and Cosmetics Act prohibits dispensing administration of activated charcoal, then restoring fluid and without prescription electrolyte balance in a specialized center until they return to

If marked hypotension occurs, this can be treated by placing the patient in a supine position with the head lowered. If necessary an intravenous infusion of isotonic saline may be

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Seek medical attention immediately at the first sign of any given, or any other method of volemic expansion may be used. adverse drug reaction. Perindoprilat, the active form of perindopril, can be dialyzed. Manufactured by:

For amIndinine Experience with intentional overdose in humans is limited. Symptoms: Available data suggest that gross overdosage could result in excessive peripheral vasodilatation and possibly reflex tachycardia. Marked and probably prolonged systemic hypotension up to and including shock with fatal outcome have been reported.

Management: Clinically significant hypotension due to Imported by: amlodipine overdosage calls for active cardiovascular support including frequent monitoring of cardiac and respiratory function, elevation of extremities and attention to circulating fluid volume and urine output. fluid volume and urine output.

A vasoconstrictor may be helpful in restoring vascular tone and blood pressure, provided that there is no contraindication to its use. Intravenous calcium gluconate may be beneficial to its use. Intravenous calcium gluconate may be beneficial ave., Sun Valley, Parañaque City in reversing the effects of calcium channel blockade. in reversing the effects of calcium channel blockade.
Gastric lavage may be worthwhile in some cases. In healthy volunteers the use of charcoal up to 2 hours after administration of amlodipine 10mg has been shown to reduce the absorbition rate of amlodining.

Beg. No.: DR-XY44976; DR-XY44977; DR-XY44979 Date of First Authorization: 29 December 2015

Date of Revision of Package Insert: 11 July 2023

absorption rate of amlodipine.
Since amlodipine is highly protein-bound, dialysis is not likely to be of benefit.

MISSED DOSE:

During phase II and III studies comparing indapamide 1.5mg and 2.5mg, plasma potassium analysis showed a dosedependent effect of indapamide:

It is important to take the medicine every day as regular treatment is more effective. However, if a dose is forgotten, take the next dose at the usual time. Do not take a double

after 4 to 6 weeks treatment. After 12 weeks treatment, the ask the doctor, pharmacist or nurse

on the carton and tablet container. The expiry date refers to the last day of that month.

Do not throw away any medicine via wastewater or household There is no information on overdosage with Perindopril waste. Ask your pharmacist how to throw away medicines

Thirty (30) film-coated tablets in polypropylene tablet container equipped with a low density polyethylene flow reducer and a low density polyethylene stopper containing a desiccant

REPORTING OF ADVERSE DRUG REACTION:



Under license from Les Laboratoires Servier 50 rue Carnot, 92284 Suresnes Cedex, France

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Very rare