

Work Document Information

Product : T - PERINACE TABLET N.3 [BACK]

SAP No. :

Date : 16 April 2025

Work Item Type [Please Tick /]

☐ Unit Box

☒ Leaflet

☐ Aluminium Foil

☐ Generic Box

☐ Outer Box

☐ Fix-A-Form

☐ Sachet

☐ Label

☐ Shipper Carton

☐ Others : _____

Sign / Stamp

Document Category [Please Tick /]

☒ RA/NPRA Work Item

☐ Recirculation Work Item

☐ Approval Copy Work Item

☐ Clean Copy

☐ Internal Network Circulation

☐ Previous Approved Work Item

☐ Draft Work Item

☐ Others : _____

Pharmacode / QR Code / Others Info

Remarks

1. Font : PT Sans Narrow Regular (Spacing -4pt / Size -4pt)

2. Dimension : 148mm(w) x 210mm(h)

Colour

Black

Colours shown on this proof are to indicate correct colour separations.

Diabetic patients:

In diabetic patients treated with oral antidiabetic agents or insulin, glycaemic control should be closely monitored during the first month of treatment with an ACE inhibitor (see DRUG INTERACTIONS).

Lithium:

The combination of lithium and perindopril is generally not recommended (see DRUG INTERACTIONS).

Potassium-sparing drugs, potassium supplements or potassium-containing salt substitutes:

The combination of perindopril and potassium-sparing drugs, potassium supplements or potassium-containing salt substitutes is generally not recommended (see DRUG INTERACTIONS).

Dual blockade of the renin-angiotensin-aldosterone system (RAAS):

There is evidence that the concomitant use of ACE-inhibitors, angiotensin II receptor blockers or aldiskren increases the risk of hypotension, hyperkalaemia and decreased renal function (including acute renal failure). Dual blockade of RAAS through the combined use of ACE-inhibitors, angiotensin II receptor blockers or aldiskren is therefore not recommended (see DRUG INTERACTIONS, and PHARMACODYNAMICS).

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.

Primary aldosteronism:

Patients with primary hyperaldosteronism generally will not respond to anti-hypertensive drugs acting through inhibition of the renin-angiotensin system. Therefore, the use of this product is not recommended.

Pregnancy:

ACE inhibitors should not be initiated during pregnancy. Unless continued ACE inhibitor therapy is considered essential, patients planning pregnancy should be changed to alternative anti-hypertensive treatments which have an established safety profile for use in pregnancy. When pregnancy is diagnosed, treatment with ACE inhibitors should be stopped immediately, and, if appropriate, alternative therapy should be started (see CONTRAINDICATIONS and USE IN PREGNANCY AND LACTATION).

Excipients:

Due to the presence of lactose, patients with rare hereditary problems of galactose intolerance, glucose/galactose malabsorption, or the Lapp lactase deficiency should not take this medicinal product.

INTERACTIONS WITH OTHER MEDICAMENTS

It has shown that dual blockade of the renin-angiotensin-aldosterone-system (RAAS) through the combined use of ACE-inhibitors, angiotensin II receptor blockers or aldiskren 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 CONTRAINDICATIONS, WARNINGS) AND PRECAUTIONS) and PHARMACODYNAMICS).

Drugs inducing hyperkalaemia

Some drugs or therapeutic classes may increase the occurrence of hyperkalaemia: aldiskren, potassium salts, potassium-sparing diuretics, ACE inhibitors, angiotensin-II receptors antagonists, NSAIDs, heparins, immunosuppressant agents such as ciclosporin or tacrolimus, trimethoprim. The combination of these drugs increases the risk of hyperkalaemia.

Concomitant use contra-indicated (see CONTRAINDICATIONS):

Aldiskren:
In diabetic or impaired renal patients, risk of hyperkalaemia, worsening of renal function and cardiovascular 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 (e.g. polycaprylonitrile membranes) and low-density lipoprotein apheresis with dextran sulfate due to increased risk of severe anaphylactoid reactions (see CONTRAINDICATIONS). If treatment is required, consideration should be given to using a different type of dialysis membrane or a different class of antihypertensive agent.

Sacubitril/Valsartan:

The concomitant use of perindopril with sacubitril/valsartan is contra-indicated as the concomitant inhibition of neprilysin and ACE may increase the risk of angioedema. 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 CONTRAINDICATIONS) and WARNINGS) AND PRECAUTIONS)).

Concomitant use not recommended (see WARNINGS) AND PRECAUTIONS):

Aldiskren:
In patients other than diabetic or impaired renal patients, risk of hyperkalaemia, worsening of renal function and cardiovascular morbidity and mortality increase.

Concomitant therapy with ACE inhibitor and angiotensin-receptor blocker:

It has been reported in the literature that in patients with established atherosclerotic disease, heart failure, or with diabetes with end organ damage, hyperkalaemia (potentially lethal), especially in conjunction with renal impairment (additive hyperkalaemic effects), the combination of perindopril with the above-mentioned drugs is not recommended (see WARNINGS) AND PRECAUTIONS)).

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.

Estimarine:

Risk of increased adverse effects such as angioneurotic oedema (angioedema).

Co-trimoxazole (trimethoprim/sulfamethoxazole)

Patients taking concomitant co-trimoxazole (trimethoprim/sulfamethoxazole) may be at increased risk for hyperkalaemia (see WARNINGS) AND PRECAUTIONS)).

Potassium-sparing diuretics (e.g. triamterene, amiloride), potassium salts:

Hyperkalaemia (potentially lethal), especially in conjunction with renal impairment (additive hyperkalaemic effects).

The combination of perindopril, with the above-mentioned drugs is not recommended (see WARNINGS) AND PRECAUTIONS)).

If concomitant use is nonetheless indicated, they should be used with caution and with frequent monitoring of serum potassium. For use of spironolactone in heart failure, see below.

Lithium:

Reversible increases in serum lithium concentrations and toxicity have been reported during concomitant administration of lithium with ACE inhibitors. Use of perindopril with lithium is not recommended, but if the combination proves necessary, careful monitoring of serum lithium levels should be performed (see WARNINGS) AND PRECAUTIONS)).

Concomitant use which requires special care:

Anti-diabetic agents (insulins, oral hypoglycaemic agents):
Epidemiological studies have suggested that concomitant administration of ACE inhibitors and antidiabetic medicines (insulins, oral hypoglycaemic agents) may cause an increased blood-glucose lowering effect with risk of hypoglycaemia.

Barbitol:
Increased antihypertensive effect. Monitor blood pressure and adapt antihypertensive dosage if necessary.

Non-potassium-sparing diuretics:

Patients on diuretics, and especially those who are volume and/or salt depleted, may experience excessive reduction in blood pressure after initiation of therapy with an ACE inhibitor. The possibility of hypotensive effects can be reduced by discontinuation of the diuretic, by increasing volume of salt intake prior to initiating therapy with low and progressive doses of perindopril.

In arterial hypertension, when prior diuretic therapy can have caused salt/volume depletion, either the diuretic must be discontinued before initiating the ACE inhibitor, in which case a non-potassium-sparing diuretic can be thereafter reintroduced or the ACE inhibitor must be initiated with a low dosage and progressively increased.

In diuretic-treated congestive heart failure, the ACE inhibitor should be initiated at a very low dosage, possibly after reducing the dosage of the associated non-potassium-sparing diuretic.

In all cases, renal function (creatinine levels) must be monitored during the first few weeks of ACE inhibitor therapy.

Potassium-sparing diuretics (eplerenone, spironolactone):

With eplerenone or spironolactone at doses between 12.5 mg to 50 mg by day and with low doses of ACE inhibitors:

In the treatment of class II-IV heart failure (NYHA) with an ejection fraction < 40%, and previously treated with ACE inhibitors and loop diuretics, risk of hyperkalaemia, potentially lethal, especially in case of non-observance of the prescription recommendations on this combination.

Before initiating the combination, check the absence of hyperkalaemia and renal impairment.

A close monitoring of the potassium and creatinemia is recommended in the first month of the treatment once a week at the beginning and, monthly thereafter.

Non-steroidal anti-inflammatory medicinal products (NSAIDs) including aspirin 2.5 g/day:

When ACE-inhibitors are administered simultaneously with non-steroidal anti-inflammatory drugs (i.e., acetylsalicylic acid at anti-inflammatory dosage regimens, COX-2 inhibitors and non-selective NSAIDs), attenuation of the antihypertensive effect may occur. Concomitant use of ACE-inhibitors and NSAIDs may lead to increased risk of worsening of renal function, including possible acute renal failure, and an increase in serum potassium, especially in patients with poor pre-existing renal function. The combination should be administered with caution, especially in the elderly. Patients should be adequately hydrated and consideration should be given to monitoring renal function after initiation of concomitant therapy, and periodically thereafter.

Racacetrol:

ACE inhibitors (e.g., perindopril) are known to cause angioedema. This risk may be elevated when used concomitantly with racacetrol (a drug used against acute diarrhoea).

mTOR inhibitors (e.g. sirolimus, everolimus, temsirolimus)

Patients taking concomitant mTOR inhibitors therapy may be at increased risk for angioedema (see WARNINGS) AND PRECAUTIONS)).

Concomitant use which requires special care:

Anti-hypertensive agents and vasodilators:
Concomitant use of these agents may increase the hypotensive effects of perindopril. Concomitant use with nitroglycerin and other nitrates, or other vasodilators, may further reduce blood pressure.

Glipitins (linagliptin, saxagliptin, sitagliptin, vilaglutin):

Increased risk of angioedema, due to dephosphorylation (DPP-4V) decreased activity by the glipitin, in patients co-treated with an ACE inhibitor.

Tricyclic antidepressants/Antipsychotics/Anesthetics:

Concomitant use of certain anesthetic medicinal products, tricyclic antidepressants and antipsychotics with ACE inhibitors may result in further reduction of blood pressure (see WARNINGS) AND PRECAUTIONS)).

Symptomatically

Symptomatically may reduce the antihypertensive effects of ACE inhibitors.

Gold:

Nitrited reactions (symptoms include facial flushing, nausea, vomiting and hypertension) have been reported rarely in patients on therapy with injectable gold (sodium auriothiomate) and concomitant ACE inhibitor therapy including perindopril.

USE IN PREGNANCY AND LACTATION

Pregnancy:

The use of ACE inhibitors is not recommended during the first trimester of pregnancy (see WARNING(s) AND PRECAUTION(s)).

The use of ACE inhibitors is contra-indicated during the 2nd and 3rd trimester of pregnancy (see CONTRAINDICATIONS) and WARNING(s) AND PRECAUTION(s)). When pregnancy is detected, this drug should be discontinued as soon as possible.

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.

Unless continued ACE inhibitor 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 ACE inhibitors should be stopped immediately, and, if appropriate, alternative therapy should be started.

Exposure to ACE inhibitor therapy during the second and third trimesters is known to induce human foetotoxicity (decreased renal function, oligohydramnios, skull ossification retardation) and neonatal toxicity (renal failure, hypotension, hyperkalaemia). Should exposure to ACE inhibitor have occurred from the 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 (see CONTRAINDICATIONS) and WARNING(s) AND PRECAUTION(s)).

Lactation:

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

Fertility:

There was no effect on reproductive performance or fertility.

SIDE EFFECTS/ADVERSE REACTIONS

a Summary of safety profile

The safety profile of perindopril is consistent with the safety profile of ACE inhibitors:

The most frequent adverse events reported in clinical trials and observed with perindopril are: dizziness, headache, paraesthesia, vertigo, most frequent disturbances, tinnitus, hypotension, cough, dyspnoea, abdominal pain, constipation, diarrhoea, dyspepsia, dyspnoea, nausea, vomiting, pruritus, rash, muscle cramps, and asthenia.

Tabulated list of adverse reactions by frequency and system organ class (SOC)

MedDRA System Organ Class	Undesirable Effects	Frequency
Blood and the lymphatic System Disorders	Eosinophilia	Uncommon*
	Agranulocytosis or pancytopenia	Very rare
	Haemoglobin decreased and haematocrit decreased	Very rare
	Leucopenia/leukopenia	Very rare
	Haemolytic anaemia in patients with a congenital deficiency of G6PD	Very rare
Metabolism and Nutrition Disorders	Thrombocytopenia	Very rare
	Hypoglycaemia	Uncommon*
	Hyperkalaemia, reversible on discontinuation	Uncommon*
	Hypokalaemia	Uncommon*
	Mood disturbances	Uncommon*
Psychiatric disorders	Sleep disorder	Uncommon*
	Dizziness	Common
	Headache	Common
	Paraesthesia	Common
	Vertigo	Common
Nervous System Disorders	Somnolence	Uncommon*
	Syncope	Uncommon*
	Confusion	Very rare
	Visual disturbances	Common
	Tinnitus	Common
Eye Disorders	Palpitations	Uncommon*
	Myocardial infarction, possibly secondary to excessive hypotension in high risk patients	Uncommon*
	Hypotension (and effects related to hypotension)	Common
	Vasculitis	Very rare
	Stroke possibly secondary to excessive hypotension in high-risk patients	Very rare
Cardiac Disorders	Raynaud's phenomenon	Not known
	Cough	Common
	Dyspnoea	Common
	Bronchospasm	Uncommon*
	Eosinophilic pneumonia	Very rare
Respiratory, Thoracic and Mediastinal Disorders	Rhinitis	Very rare
	Abdominal pain	Common
	Constipation	Common
	Diarrhoea	Common
	Dyspepsia	Common
Gastro-intestinal Disorders	Dyspepsia	Common
	Nausea	Common
	Vomiting	Common
	Dry mouth	Uncommon*
	Pancreatitis	Very rare
Hepato-biliary Disorders	Hepatitis either cytolytic or cholestatic	Very rare
	Pruritus	Common
	Rash	Common
	Urticaria	Uncommon*
	Angioedema of face, extremities, lips, mucous membranes, tongue, glottis and/or larynx	Uncommon*
Skin and Subcutaneous Tissue Disorders	Photosensitivity reactions	Uncommon*
	Prurigo	Uncommon*
	Psoriasis aggravation	Rare*
	Hypertrophic scars	Uncommon*
	Erythema multiforme	Very rare
Musculoskeletal And Connective Tissue Disorders	Muscle cramps	Common
	Arthralgia	Uncommon*
	Myalgia	Uncommon*
	Renal insufficiency	Uncommon*
	Acute renal failure	Very rare
Renal and Urinary Disorders	Erectile dysfunction	Uncommon
	Asthenia	Common
	Chest pain	Uncommon*
	Malaise	Uncommon*
	Oedema peripheral	Uncommon*
Reproductive System and Breast Disorders	Pyrexia	Uncommon*
	Blood urea increased	Uncommon*
	Blood creatinine increased	Uncommon*
	Hepatic enzyme increased	Rare*
	Fall	Uncommon*

Causes of SDAH have been reported with other ACE inhibitors. SDAH can be considered as a very rare but possible complication associated with ACE inhibitor therapy including perindopril.

SYMPTOMS AND TREATMENT OF OVERDOSE

Limited data are available for overdose in humans. Symptoms associated with overdose of ACE inhibitors may include hypotension, circulatory shock, electrolyte disturbances, renal failure, hyperventilation, tachycardia, palpitations, bradycardia, dizziness, anxiety and cough.

The recommended treatment of overdose is intravenous infusion of sodium chloride 0.9% (0.9% solution). If hypotension occurs, the patient should be placed in the shock position. If available, treatment with angiotensin II infusion and/or intravenous catecholamines may also be considered. Perindopril may be removed from the general circulation by haemodialysis (see WARNING(s) AND PRECAUTION(s)).

Pacemaker therapy is indicated for therapy-resistant bradycardia. Vital signs, serum electrolytes and creatinine concentrations should be monitored continuously.

EFFECTS ON ABILITY TO DRIVE AND USE MACHINES

Perinace has no direct influence on the ability to drive and use machines but individual reactions related to low blood pressure may occur in some patients, particularly at the start of treatment or in combination with other antihypertensive medication.

As a result, the ability to drive or operate machinery may be impaired.

STORAGE CONDITIONS

Store in a dry place below 30°C.

Keep out of reach of children. Jauhkan daripada kanak-kanak.

PACKING/ PACK SIZES

Foil blister of 3 x 10's and 10 x 10's tablets packed in an aluminium pouch per unit box with a package insert.

All pack sizes may not be marketed.

PRODUCT REGISTRATION HOLDER

Diopharma Manufacturing (Bangi) Sdn Bhd,
Lot No 2 & 8, 4 & 10, Jalan P/7, Section 13,
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MANUFACTURER

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