

RANCANGAN LEAFLET



sanofi

COMPOSITION

CoAprovel 150 mg /12.5 mg Film coated tablets

Each film-coated tablet contains 150 mg irbesartan and 12.5 mg hydrochlorothiazide.

CoAprovel 300 mg/12.5 mg Film coated tablets

Each film-coated tablet contains 300 mg irbesartan and 12.5 mg hydrochlorothiazide.

PHARMACEUTICAL FORM

150 mg/12.5 mg film coated tablet

Film-coated tablet: Peach, biconvex, oval-shaped, with a heart debossed on one side and the number «2875» engraved on the other side.

300 mg/12.5 mg film coated tablet

Film-coated tablet: Peach (orange-pink), biconvex, oval film-coated tablet engraved with a heart on one side and «2876» on the other side.

CLINICAL PARTICULARS

Therapeutic indications

Treatment of essential hypertension.

This fixed dose combination is indicated in patients whose blood pressure is not adequately controlled on irbesartan or hydrochlorothiazide alone.

This fixed dose combination is also indicated as initial treatment when hypertension is severe and rapid control of blood pressure (within days to weeks) is of primary clinical importance (see "*Pharmacodynamic Properties*").

Posology and method of administration

Posology

CoAprovel can be taken once daily, with or without food.

Dose titration with the individual components (i.e. irbesartan and hydrochlorothiazide) may be recommended.

When clinically appropriate direct change from monotherapy to the fixed combinations may be considered:

- CoAprovel 150 mg/12.5 mg may be administered in patients whose blood pressure is not adequately controlled with hydrochlorothiazide or irbesartan 150 mg alone;
- CoAprovel 300 mg/12.5 mg may be administered in patients insufficiently controlled by irbesartan 300 mg or by CoAprovel 150 mg/12.5 mg.
- CoAprovel 300 mg/25 mg may be administered in patients insufficiently controlled by CoAprovel 300 mg/12.5 mg.

Doses higher than 300 mg irbesartan/25 mg hydrochlorothiazide once daily are not recommended.

When necessary, CoAprovel may be administered with another antihypertensive medicinal product (see "*Contraindications*", "*Special warnings and precautions for use*", "*Interaction with other medicinal products and other forms of interaction*" and "*Pharmacodynamic properties*").

Special Populations

Renal impairment: due to the hydrochlorothiazide component, CoAprovel is not recommended for patients with severe renal impairment (creatinine clearance < 30 ml/min). Loop diuretics are preferred to thiazides in this

population. No dosage adjustment is necessary in patients with renal impairment whose renal creatinine clearance is ≥ 30 ml/min (see “*Contraindications*” and “*Special warnings and special precautions for use*”).

Hepatic impairment: CoAprovel is not indicated in patients with severe hepatic impairment. Thiazides should be used with caution in patients with impaired hepatic function. No dosage adjustment of CoAprovel is necessary in patients with mild to moderate hepatic impairment (see “*Contraindications*”).

Intravascular volume depletion: volume and/or sodium depletion should be corrected prior to administration of CoAprovel (see “*Special warnings and special precautions for use, Hypotension - Volume-depleted patients*”).

Older people: no dosage adjustment of CoAprovel is necessary in older people.

Paediatric population: CoAprovel is not recommended for use in children and adolescents because the safety and efficacy have not been established. No data are available.

Method of Administration

For oral use.

Contraindications

- Hypersensitivity to the active substances, to any of the excipients (see “*List of excipients*”), or to other sulfonamide-derived substances (hydrochlorothiazide is a sulfonamide-derived substance)
- Second and third trimester of pregnancy (see “*Special warnings and special precautions for use*” and “*Pregnancy and lactation*”)
- Severe renal impairment (creatinine clearance < 30 ml/min)
- Refractory hypokalaemia, hypercalcaemia
- Severe hepatic impairment, biliary cirrhosis and cholestasis
- The concomitant use of CoAprovel with aliskiren-containing products is contraindicated in patients with diabetes mellitus or renal impairment (glomerular filtration rate (GFR) < 60 ml/min/1.73 m²) (see “*Interaction with other medicinal products and other forms of interaction*” and “*Pharmacodynamic properties*”)

Special warnings and precautions for use

Hypotension - Volume-depleted patients: CoAprovel has been rarely associated with symptomatic hypotension in hypertensive patients without other risk factors for hypotension. Symptomatic hypotension may be expected to 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 initiating therapy with CoAprovel.

Renal artery stenosis - Renovascular hypertension: 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 angiotensin converting enzyme inhibitors or angiotensin-II receptor antagonists. While this is not documented with CoAprovel, a similar effect should be anticipated.

Renal impairment and kidney transplantation: when CoAprovel is used in patients with impaired renal function, a periodic monitoring of potassium, creatinine and uric acid serum levels is recommended. There is no experience regarding the administration of CoAprovel in patients with a recent kidney transplantation. CoAprovel should not be used in patients with severe renal impairment (creatinine clearance < 30 ml/min) (see “*Contraindications*”). Thiazide diuretic-associated azotemia may occur in patients with impaired renal function. No dosage adjustment is necessary in patients with renal impairment whose creatinine clearance is ≥ 30 ml/min. However, in patients with mild to moderate renal impairment (creatinine clearance ≥ 30 ml/min but < 60 ml/min) this fixed dose combination should be administered with caution.

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 blockers or aliskiren is therefore not recommended (see “*Interactions with other medicinal products and other forms of interaction*” and “*Pharmacodynamic properties*”). 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.

Psoriasis: The use of in patients with psoriasis or a history of psoriasis should be carefully weighed as it may exacerbate psoriasis.

Hepatic impairment: thiazides should be used with caution in patients with impaired hepatic function or progressive liver disease, since minor alterations of fluid and electrolyte balance may precipitate hepatic coma. There is no clinical experience with CoAprovel in patients with hepatic impairment.

Aortic and mitral valve stenosis, obstructive hypertrophic cardiomyopathy: as with other vasodilators, special caution is indicated in patients suffering from aortic or mitral stenosis, or obstructive hypertrophic cardiomyopathy.

Primary aldosteronism: patients with primary aldosteronism generally will not respond to anti-hypertensive medicinal products acting through inhibition of the renin-angiotensin system. Therefore, the use of CoAprovel is not recommended.

Metabolic and endocrine effects: thiazide therapy may impair glucose tolerance. Latent diabetes mellitus may become manifest during thiazide therapy. Irbesartan may induce hypoglycaemia, particularly in diabetic patients. In patients treated with insulin or antidiabetics an appropriate blood glucose monitoring should be considered; a dose adjustment of insulin or antidiabetics may be required when indicated (see "*Interaction with other medicinal products and other forms of interaction*").

Increases in cholesterol and triglyceride levels have been associated with thiazide diuretic therapy; however at the 12.5 mg dose contained in CoAprovel, minimal or no effects were reported.

Hyperuricaemia may occur or frank gout may be precipitated in certain patients receiving thiazide therapy.

Electrolyte imbalance: as for any patient receiving diuretic therapy, periodic determination of serum electrolytes should be performed at appropriate intervals.

Thiazides, including hydrochlorothiazide, can cause fluid or electrolyte imbalance (hypokalaemia, hyponatraemia, and hypochloremic alkalosis). Warning signs of fluid or electrolyte imbalance are dryness of mouth, thirst, weakness, lethargy, drowsiness, restlessness, muscle pain or cramps, muscular fatigue, hypotension, oliguria, tachycardia, and gastrointestinal disturbances such as nausea or vomiting.

Although hypokalaemia may develop with the use of thiazide diuretics, concurrent therapy with irbesartan may reduce diuretic-induced hypokalaemia. The risk of hypokalaemia is greatest in patients with cirrhosis of the liver, in patients experiencing brisk diuresis, in patients who are receiving inadequate oral intake of electrolytes and in patients receiving concomitant therapy with corticosteroids or ACTH. Conversely, due to the irbesartan component of CoAprovel hyperkalaemia might occur, especially in the presence of renal impairment and/or heart failure, and diabetes mellitus. Adequate monitoring of serum potassium in patients at risk is recommended. Potassium-sparing diuretics, potassium supplements or potassium-containing salts substitutes should be co-administered cautiously with CoAprovel (see "*Interaction with other medicinal products and other forms of interaction*").

There is no evidence that irbesartan would reduce or prevent diuretic-induced hyponatraemia. Chloride deficit is generally mild and usually does not require treatment.

Thiazides may decrease urinary calcium excretion and cause an intermittent and slight elevation of serum calcium in the absence of known disorders of calcium metabolism. Marked hypercalcaemia may be evidence of hidden hyperparathyroidism. Thiazides should be discontinued before carrying out tests for parathyroid function.

Thiazides have been shown to increase the urinary excretion of magnesium, which may result in hypomagnesaemia.

Lithium: the combination of lithium and CoAprovel is not recommended (see "*Interaction with other medicinal products and other forms of interaction*").

Anti-doping test: hydrochlorothiazide contained in this medicinal product could produce a positive analytic result in an anti-doping test.

Fetal/Neonatal Morbidity and Mortality: Although there is no experience with CoAprovel in pregnant women, *in utero* exposure to ACE inhibitors given to pregnant women during the second and third trimesters has been reported

to cause injury and death to the developing fetus. Thus, as for any drug that also acts directly on the renin-angiotensin-aldosterone system, CoAprovel should not be used during pregnancy. If pregnancy is detected during therapy, CoAprovel should be discontinued as soon as possible.

Thiazides cross the placental barrier and appear in cord blood. The routine use of diuretics in otherwise healthy pregnant women is not recommended and exposes mother and fetus to unnecessary hazard, including fetal or neonatal jaundice, thrombocytopenia and possibly other adverse reactions which have occurred in the adult.

General: 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 angiotensin converting enzyme inhibitors or angiotensin-II receptor antagonists that affect this system has been associated with acute hypotension, azotemia, oliguria, or rarely acute renal failure. As with any antihypertensive agent, excessive blood pressure decrease in patients with ischemic cardiopathy or ischemic cardiovascular disease could result in a myocardial infarction or stroke.

Hypersensitivity reactions to hydrochlorothiazide may occur in patients with or without a history of allergy or bronchial asthma, but are more likely in patients with such a history.

Exacerbation or activation of systemic lupus erythematosus has been reported with the use of thiazide diuretics. Cases of photosensitivity reactions have been reported with thiazides diuretics (see "*Undesirable effects*"). 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.

Pregnancy: angiotensin II receptor antagonists including CoAprovel should not be initiated during pregnancy. Unless continued therapy with angiotensin II receptor antagonists 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 "*Contraindications*" and "*Fertility, pregnancy and lactation*").

Choroidal effusion, Acute Myopia and Secondary Acute Angle-Closure Glaucoma: sulfonamide drugs or sulfonamide derivative drugs can cause an idiosyncratic reaction, resulting in choroidal effusion with visual field defect, transient myopia and acute angleclosure glaucoma. While hydrochlorothiazide is a sulfonamide, only isolated cases of acute angleclosure glaucoma have been reported so far with hydrochlorothiazide. Symptoms include acute onset of decreased visual acuity or ocular pain and typically occur within hours to weeks of drug initiation. Untreated acute angle-closure glaucoma 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 (see "*Undesirable effects*").

Excipients:

CoAprovel film-coated tablet contains lactose. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicine.

CoAprovel film-coated tablet contains sodium. This medicine contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially 'sodium-free'.

Non-melanoma skin cancer

An increased risk of non-melanoma skin cancer (NMSC) [basal cell carcinoma (BCC) and squamous cell carcinoma (SCC)] with increasing cumulative dose of hydrochlorothiazide (HCTZ) exposure has been observed in two epidemiological studies based on the Danish National Cancer Registry. Photosensitizing actions of HCTZ could act as a possible mechanism for NMSC. Patients taking HCTZ should be informed of the risk of NMSC and advised to regularly check their skin for any new lesions and promptly report any suspicious skin lesions. Possible preventive measures such as limited exposure to sunlight and UV rays and, in case of exposure, adequate protection should be advised to the patients in order to minimize the risk of skin cancer. Suspicious skin lesions should be promptly examined potentially including histological examinations of biopsies. The use of HCTZ may also need to be reconsidered in patients who have experienced previous NMSC (see also section "*Undesirable effects*").

Acute Respiratory Toxicity

Very rare severe cases of acute respiratory toxicity, including acute respiratory distress syndrome (ARDS) have been reported after taking hydrochlorothiazide. Pulmonary oedema typically develops within minutes to hours after hydrochlorothiazide intake. At the onset, symptoms include dyspnoea, fever, pulmonary deterioration and hypotension. The use of drugs containing Hydrochlorothiazide has the potential risk of Acute Respiratory Distress Syndrome (ARDS), a condition triggered by lung injury that causes low levels of oxygen in the blood and can cause serious and potentially fatal complications. If diagnosis of ARDS is suspected, CoAprovel should be withdrawn and appropriate treatment given. Hydrochlorothiazide should not be administered to patients who previously experienced ARDS following hydrochlorothiazide intake.

Interaction with other medicinal products and other forms of interaction

Other antihypertensive agents: the antihypertensive effect of CoAprovel may be increased with the concomitant use of other antihypertensive agents. Irbesartan and hydrochlorothiazide (at doses up to 300 mg irbesartan/25 mg hydrochlorothiazide) have been safely administered with other antihypertensive agents including calcium channel blockers and beta-adrenergic blockers. Prior treatment with high dose diuretics may result in volume depletion and a risk of hypotension when initiating therapy with irbesartan with or without thiazide diuretics unless the volume depletion is corrected first (see “*Special warnings and precautions for use*”).

Aliskiren-containing products or ACE-inhibitors: Clinical trial data has shown that dual blockade of the renin-angiotensin-aldosterone system (RAAS) through the combined use of ACE-inhibitors, angiotensin II receptor blockers or 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 “*Contraindications*”, “*Special warnings and precautions for use*” and “*Pharmacodynamic properties*”).

Lithium: reversible increases in serum lithium concentrations and toxicity have been reported during concomitant administration of lithium with angiotensin converting enzyme inhibitors. Similar effects have been very rarely reported with irbesartan so far. Furthermore, renal clearance of lithium is reduced by thiazides so the risk of lithium toxicity could be increased with CoAprovel. Therefore, the combination of lithium and CoAprovel is not recommended (see “*Special warnings and precautions for use*”). If the combination proves necessary, careful monitoring of serum lithium levels is recommended.

Medicinal products affecting potassium: the potassium-depleting effect of hydrochlorothiazide is attenuated by the potassium-sparing effect of irbesartan. However, this effect of hydrochlorothiazide on serum potassium would be expected to be potentiated by other medicinal products associated with potassium loss and hypokalaemia (e.g. other kaliuretic diuretics, laxatives, amphotericin, carbenoxolone, penicillin G sodium). Conversely, based on the experience with the use of other medicinal products that blunt the renin-angiotensin system, concomitant use of potassium-sparing diuretics, potassium supplements, salt substitutes containing potassium or other medicinal products that may increase serum potassium levels (e.g. heparin sodium) may lead to increases in serum potassium. Adequate monitoring of serum potassium in patients at risk is recommended (see “*Special warnings and precautions for use*”).

Medicinal products affected by serum potassium disturbances: periodic monitoring of serum potassium is recommended when CoAprovel is administered with medicinal products affected by serum potassium disturbances (e.g. digitalis glycosides, antiarrhythmics).

Non-steroidal anti-inflammatory drugs: when angiotensin II antagonists are administered simultaneously with non-steroidal anti-inflammatory drugs (i.e. selective COX-2 inhibitors, acetylsalicylic acid (> 3 g/day) and non-selective NSAIDs), attenuation of the antihypertensive effect may occur.

As with ACE inhibitors, concomitant use of angiotensin II antagonists and NSAIDs may lead to an 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.

Repaglinide: irbesartan has the potential to inhibit OATP1B1. In a clinical study, it was reported that irbesartan increased the C_{max} and AUC of repaglinide (substrate of OATP1B1) by 1.8-fold and 1.3-fold, respectively, when administered 1 hour before repaglinide. In another study, no relevant pharmacokinetic interaction was reported,

when the two drugs were co-administered. Therefore, dose adjustment of antidiabetic treatment such as repaglinide may be required (see "*Special warnings and precautions for use*").

Additional information on irbesartan interactions: in clinical studies, the pharmacokinetic of irbesartan is not affected by hydrochlorothiazide. Irbesartan is mainly metabolized by CYP2C9 and to a lesser extent by glucuronidation. No significant pharmacokinetic or pharmacodynamic interactions were observed when irbesartan was coadministered with warfarin, a medicinal product metabolized by CYP2C9. The effects of CYP2C9 inducers such as rifampicin on the pharmacokinetic of irbesartan have not been evaluated. The pharmacokinetic of digoxin was not altered by co-administration of irbesartan.

Additional information on hydrochlorothiazide interactions: when administered concurrently, the following medicinal products may interact with thiazide diuretics:

Alcohol: potentiation of orthostatic hypotension may occur;

Antidiabetic medicinal products (oral agents and insulins): dosage adjustment of the antidiabetic medicinal product may be required (see “*Special warnings and precautions for use*”);

Colestyramine and Colestipol resins: absorption of hydrochlorothiazide is impaired in the presence of anionic exchange resins. CoAprovel should be taken at least one hour before or four hours after these medications;

Corticosteroids, ACTH: electrolyte depletion, particularly hypokalaemia, may be increased;

Digitalis glycosides: thiazide induced hypokalaemia or hypomagnesaemia favour the onset of digitalis-induced cardiac arrhythmias (see “*Special warnings and precautions for use*”);

Non-steroidal anti-inflammatory drugs: the administration of a non-steroidal anti-inflammatory drug may reduce the diuretic, natriuretic and antihypertensive effects of thiazide diuretics in some patients;

Pressor amines (e.g. noradrenaline): the effect of pressor amines may be decreased, but not sufficiently to preclude their use;

Nondepolarizing skeletal muscle relaxants (e.g. tubocurarine): the effect of nondepolarizing skeletal muscle relaxants may be potentiated by hydrochlorothiazide;

Antigout medicinal products: dosage adjustments of antigout medicinal products may be necessary as hydrochlorothiazide may raise the level of serum uric acid. Increase in dosage of probenecid or sulfinpyrazone may be necessary. Co-administration of thiazide diuretics may increase the incidence of hypersensitivity reactions to allopurinol;

Calcium salts: thiazide diuretics may increase serum calcium levels due to decreased excretion. If calcium supplements or calcium sparing medicinal products (e.g. Vitamin D therapy) must be prescribed, serum calcium levels should be monitored and calcium dosage adjusted accordingly;

Carbamazepine: concomitant use of carbamazepine and hydrochlorothiazide has been associated with the risk of symptomatic hyponatraemia. Electrolytes should be monitored during concomitant use. If possible, another class of diuretics should be used;

Other interactions: the hyperglycaemic effect of beta-blockers and diazoxide may be enhanced by thiazides. Anticholinergic agents (e.g. atropine, beperiden) may increase the bioavailability of thiazide-type diuretics by decreasing gastrointestinal motility and stomach emptying rate. Thiazides may increase the risk of adverse effects caused by amantadine. Thiazides may reduce the renal excretion of cytotoxic medicinal products (e.g. cyclophosphamide, methotrexate) and potentiate their myelosuppressive effects.

Fertility, pregnancy and lactation

Pregnancy: CoAprovel is not recommended during the first trimester of pregnancy (see “*Special warnings and precautions for use*”). The use of angiotensin II receptor antagonists is contraindicated during the second and third trimester of pregnancy (see “*Contraindications*” and “*Special warnings and precautions for use*”).

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 (AIIAs), similar risks may

exist for this class of drugs. Unless continued AIIRA 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 AIIRAs should be stopped immediately, and, if appropriate, alternative therapy should be started.

Exposure to AIIRA 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) (see “*Preclinical safety data*”).

Should exposure to AIIRAs have occurred from the second trimester of pregnancy, ultrasound check of renal function and skull is recommended. Infants whose mothers have taken AIIRAs should be closely observed for hypotension (see “*Contraindications*” and “*Special warnings and precautions for use*”).

Thiazides cross the placental barrier and appear in cord blood. They may cause a decrease in placental perfusion, foetal electrolyte disturbances and possibly other reactions that have occurred in the adults. Cases of neonatal thrombocytopenia, or foetal or neonatal jaundice have been reported with maternal thiazide therapy. Since CoAprovel contains hydrochlorothiazide, it is not recommended during the first trimester of pregnancy. A switch to a suitable alternative treatment should be carried out in advance of a planned pregnancy.

Breast-feeding: Because no information is available regarding the use of CoAprovel during breast-feeding, CoAprovel is not recommended and alternative treatments with better established safety profiles during breastfeeding are preferable, especially while nursing a newborn or preterm infant. It is unknown whether irbesartan or its metabolites are excreted in human milk. Available pharmacodynamic/toxicological data in rats have shown excretion of irbesartan or its metabolites in milk (for details see “*Preclinical safety data*”). Hydrochlorothiazide is excreted in human milk in small amounts. Thiazides in high doses causing intense diuresis can inhibit the milk production. The use of CoAprovel during breast feeding is not recommended. If CoAprovel is used during breast feeding, doses should be kept as low as possible.

Fertility

Irbesartan had no effect upon fertility of treated rats and their offspring up to the dose levels inducing the first signs of parental toxicity (see section “*Preclinical safety data*”).

Effects on ability to drive and use machines

Based on its pharmacodynamic properties, CoAprovel is unlikely to affect the ability to drive and use machines. When driving vehicles or operating machines, it should be taken into account that occasionally dizziness or weariness may occur during treatment of hypertension.

Undesirable effects

Irbesartan/hydrochlorothiazide combination:

Among 898 hypertensive patients who received various doses of irbesartan/hydrochlorothiazide (range: 37.5 mg/6.25 mg to 300 mg/25 mg) in placebo-controlled trials, 29.5% of the patients experienced adverse reactions. The most commonly reported ADRs were dizziness (5.6%), fatigue (4.9%), nausea/vomiting (1.8%), and abnormal urination (1.4%). In addition, increases in blood urea nitrogen (BUN) (2.3%), creatine kinase (1.7%) and creatinine (1.1%) were also commonly observed in the trials.

Table 1 gives the adverse reactions observed from spontaneous reporting and in placebo-controlled trials.

The frequency of adverse reactions listed below is defined using the following convention: very common ($\geq 1/10$); common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1,000$ to $< 1/100$); rare ($\geq 1/10,000$ to $< 1/1,000$); very rare ($< 1/10,000$). Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

Table 1: Adverse Reactions in Placebo-Controlled Trials and Spontaneous Reports

<i>Investigations:</i>	Common:	increases in blood urea nitrogen (BUN), creatinine and creatine kinase
	Uncommon:	decreases in serum potassium and sodium
<i>Cardiac disorders:</i>	Uncommon:	syncope, hypotension, tachycardia, oedema
<p>Based on CoAprovel-EU SmPC (16 Feb 2022) 8</p>		

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<i>Nervous system disorders:</i>	Common:	dizziness
	Uncommon:	orthostatic dizziness
	Not known:	headache
<i>Ear and labyrinth disorders:</i>	Not known:	tinnitus
<i>Respiratory, thoracic and mediastinal disorders:</i>	Not known:	cough
<i>Gastrointestinal disorders:</i>	Common:	nausea/vomiting
	Uncommon:	diarrhoea
	Not known:	dyspepsia, dysgeusia
<i>Renal and urinary disorders:</i>	Common:	abnormal urination
	Uncommon:	impaired renal function including isolated cases of renal failure in patients at risk (see “ <i>Special warnings and special precautions for use</i> ”)
<i>Musculoskeletal and connective tissue disorders:</i>	Common:	swelling extremity
	Not known:	arthralgia, myalgia
<i>Metabolism and nutrition disorders:</i>	Not known:	hyperkalaemia
<i>Vascular disorders:</i>	Uncommon:	flushing
<i>General disorders and administration site conditions:</i>	Common:	fatigue
<i>Immune system disorders:</i>	Not known:	cases of hypersensitivity reactions such as angioedema, rash, urticaria
<i>Hepatobiliary disorders:</i>	Not known:	hepatitis, abnormal liver function
<i>Reproductive system and breast disorders:</i>	Uncommon:	sexual dysfunction, libido changes

Additional information on individual components: in addition to the adverse reactions listed above for the combination product, other adverse reactions previously reported with one of the individual components may be potential adverse reactions with CoAprovel. Tables 2 and 3 below detail the adverse reactions reported with the individual components of CoAprovel.

Table 2: Adverse reactions reported with the use of **irbesartan** alone

<i>Blood and lymphatic system disorders:</i>	Not known:	anaemia, thrombocytopenia
<i>General disorders and administration site conditions:</i>	Uncommon:	chest pain
<i>Immune system disorders:</i>	Not known:	Anaphylactic reaction including anaphylactic shock, thrombocytopenic purpura, psoriasis (and psoriasis exacerbation), and photosensitivity
<i>Metabolism and nutrition disorders:</i>	Not known:	hypoglycaemia

Table 3: Adverse reactions reported with the use of **hydrochlorothiazide** alone

<i>Investigations:</i>	Not known:	electrolyte imbalance (including hypokalaemia and hyponatraemia, see “ <i>Special warnings and precautions for use</i> ”), hyperuricaemia, glycosuria, hyperglycaemia, increases in cholesterol and triglycerides
<i>Cardiac disorders:</i>	Not known:	cardiac arrhythmias
<i>Blood and lymphatic system disorders:</i>	Not known:	aplastic anaemia, bone marrow depression, neutropenia/agranulocytosis, haemolytic anaemia, leucopenia, thrombocytopenia
<i>Nervous system disorders:</i>	Not known:	vertigo, paraesthesia, light-headedness, restlessness

<i>Eye disorders:</i>	Not known:	transient blurred vision, xanthopsia, acute myopia and secondary acute angle-closure glaucoma, choroidal effusion
<i>Respiratory, thoracic and mediastinal disorders:</i>	Very rare:	acute respiratory distress syndrome (ARDS) with symptoms such as shortness of breath, rapid heartbeat, blue fingernails/skin/lips, and chest pain (see “Special warnings and precautions for use”).
	Not known:	respiratory distress (including pneumonitis and pulmonary oedema)
<i>Gastrointestinal disorders:</i>	Not known:	pancreatitis, anorexia, diarrhoea, constipation, gastric irritation, sialadenitis, loss of appetite
<i>Renal and urinary disorders:</i>	Not known:	interstitial nephritis, renal dysfunction
<i>Skin and subcutaneous tissue disorders:</i>	Not known:	anaphylactic reactions, toxic epidermal necrolysis, necrotizing angitis (vasculitis, cutaneous vasculitis), cutaneous lupus erythematosus-like reactions, reactivation of cutaneous lupus erythematosus, photosensitivity reactions, rash, urticaria
<i>Musculoskeletal and connective tissue disorders:</i>	Not known:	weakness, muscle spasm
<i>Vascular disorders:</i>	Not known:	postural hypotension
<i>General disorders and administration site conditions:</i>	Not known:	fever
<i>Hepatobiliary disorders:</i>	Not known:	jaundice (intrahepatic cholestatic jaundice)
<i>Psychiatric disorders:</i>	Not known:	depression, sleep disturbances
<i>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</i>	Not known:	non-melanoma skin cancer (basal cell carcinoma and squamous cell carcinoma)

Non-melanoma skin cancer: Based on available data from epidemiological studies, cumulative dose dependent association between HCTZ and NMSC has been observed (see also sections “Special warnings and precautions for use” and “Pharmacodynamic properties”).

The dose dependent adverse events of hydrochlorothiazide (Particularly electrolyte disturbances) may increase, when titrating the hydrochlorothiazide.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorization of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product.

Healthcare professionals are asked to report any suspected adverse reactions via farmakovigilans@kalventis.com and Pusat Farmakovigilans/MESO Nasional Direktorat Pengawasan Keamanan, Mutu, dan Ekspor Impor Obat, Narkotika, Psikotropika, Prekursor dan Zat Adiktif Badan Pengawas Obat dan Makanan.

Jl. Percetakan Negara No. 23, Jakarta Pusat, 10560

Email: pv-center@pom.go.id

Phone: +62-21-4244691 Ext. 1079

Website: <https://e-meso.pom.go.id/>.

Overdose

No specific information is available on the treatment of overdose with CoAprovel. 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 overdose. Serum electrolytes and creatinine should be monitored frequently. If hypotension occurs, the patient should be placed in a supine position, with salt and volume replacements given quickly.

The most likely manifestations of irbesartan overdose are expected to be hypotension and tachycardia; bradycardia might also occur.

Overdosage with hydrochlorothiazide is associated with electrolyte depletion (hypokalaemia, hypochloremia, hyponatraemia) and dehydration resulting from excessive diuresis. The most common signs and symptoms of overdosage are nausea and somnolence. Hypokalaemia may result in muscle spasms and/or accentuate cardiac arrhythmias associated with the concomitant use of digitalis glycosides or certain anti-arrhythmic medicinal products.

Irbesartan is not removed by haemodialysis. The degree to which hydrochlorothiazide is removed by haemodialysis has not been established.

PHARMACOLOGY PROPERTIES

Pharmacodynamic properties

Pharmacotherapeutic group: angiotensin-II antagonists, combinations

ATC code: C09DA04.

Mechanism of action

CoAprovel is a combination of an angiotensin-II receptor antagonist, irbesartan, and a thiazide diuretic, hydrochlorothiazide. The combination of these ingredients has an additive antihypertensive effect, reducing blood pressure to a greater degree than either component alone.

Irbesartan is a potent, orally active, selective angiotensin-II receptor (AT₁ subtype) antagonist. It is expected to block all actions of angiotensin-II mediated by the AT₁ receptor, regardless of the source or route of synthesis of angiotensin-II. The selective antagonism of the angiotensin-II (AT₁) receptors results in increases in plasma renin levels and angiotensin-II levels, and a decrease in plasma aldosterone concentration. Serum potassium levels are not significantly affected by irbesartan alone at the recommended doses in patients without risk of electrolyte imbalance (see "*Special warnings and Special precautions for use*" and "*Interaction with other medicinal products and other forms of interactions*"). Irbesartan does not inhibit ACE (kininase-II), an enzyme which generates angiotensin-II and also degrades bradykinin into inactive metabolites. Irbesartan does not require metabolic activation for its activity.

Hydrochlorothiazide is a thiazide diuretic. The mechanism of antihypertensive effect of thiazide diuretics is not fully known. Thiazides affect the renal tubular mechanisms of electrolyte reabsorption, directly increasing excretion of sodium and chloride in approximately equivalent amounts. The diuretic action of hydrochlorothiazide reduces plasma volume, increases plasma renin activity, increases aldosterone secretion, with consequent increases in urinary potassium and bicarbonate loss, and decreases in serum potassium. Presumably through blockade of the renin-angiotensin-aldosterone system, co-administration of irbesartan tends to reverse the potassium loss associated with these diuretics. With hydrochlorothiazide, onset of diuresis occurs in 2 hours, and peak effect occurs at about 4 hours, while the action persists for approximately 6-12 hours.

The combination of hydrochlorothiazide and irbesartan produces dose-related additive reductions in blood pressure across their therapeutic dose ranges. The addition of 12.5 mg hydrochlorothiazide to 300 mg irbesartan once daily in patients not adequately controlled on 300 mg irbesartan alone resulted in further placebo-corrected diastolic blood pressure reductions at trough (24 hours post-dosing) of 6.1 mm Hg. The combination of 300 mg irbesartan and 12.5 mg hydrochlorothiazide resulted in overall placebo-subtracted systolic/diastolic reductions of up to 13.6/11.5 mm Hg.

Limited clinical data (7 out of 22 patients) suggest that patients not controlled with the 300 mg/12.5 mg combination may respond when uptitrated to 300 mg/25 mg. In these patients, an incremental blood pressure lowering effect was observed for both systolic blood pressure (SBP) and diastolic blood pressure (DBP) (13.3 and 8.3 mmHg, respectively).

Once daily dosing with 150 mg irbesartan and 12.5 mg hydrochlorothiazide gave systolic/diastolic mean placebo-adjusted blood pressure reductions at trough (24 hours post-dosing) of 12.9/6.9 mm Hg in patients with mild-to-moderate hypertension. Peak effects occurred at 3-6 hours. When assessed by ambulatory blood pressure monitoring, the combination 150 mg irbesartan and 12.5 mg hydrochlorothiazide once daily produced consistent reduction in blood pressure over the 24 hour period with mean 24-hour placebo-subtracted systolic/diastolic reductions of 15.8/10.0 mm Hg. When measured by ambulatory blood pressure monitoring, the trough to peak

effects of CoAprovel 150 mg/12.5 mg were 100%. The trough to peak effects measured by cuff during office visits were 68% and 76% for CoAprovel 150 mg/12.5 mg and CoAprovel 300 mg/12.5 mg, respectively. These 24-hour effects were observed without excessive blood pressure lowering at peak and are consistent with safe and effective blood-pressure lowering over the once-daily dosing interval.

In patients not adequately controlled on 25 mg hydrochlorothiazide alone, the addition of irbesartan gave an added placebo-subtracted systolic/diastolic mean reduction of 11.1/7.2 mm Hg.

The blood pressure lowering effect of irbesartan in combination with hydrochlorothiazide is apparent after the first dose and substantially present within 1-2 weeks, with the maximal effect occurring by 6-8 weeks. In long-term follow-up studies, the effect of irbesartan/hydrochlorothiazide was maintained for over one year. Although not specifically studied with the CoAprovel, rebound hypertension has not been seen with either irbesartan or hydrochlorothiazide.

The effect of the combination of irbesartan and hydrochlorothiazide on morbidity and mortality has not been studied. Epidemiological studies have shown that long term treatment with hydrochlorothiazide reduces the risk of cardiovascular mortality and morbidity.

There is no difference in response to CoAprovel, regardless of age or gender. As is the case with other medicinal products that affect the rennin-angiotensin system, black hypertensive patients have notably less response to irbesartan monotherapy. When irbesartan is administered concomitantly with a low dose of hydrochlorothiazide (e.g. 12.5 mg daily), the antihypertensive response in black patients approaches that of non-black patients.

Clinical efficacy and safety

Efficacy and safety of CoAprovel as initial therapy for severe hypertension (defined as SeDBP \geq 110 mmHg) was evaluated in a multicenter, randomized, double-blind, active-controlled, 8-week, parallel-arm study. A total of 697 patients were randomized in a 2:1 ratio to either irbesartan/hydrochlorothiazide 150 mg/12.5 mg or to irbesartan 150 mg and systematically forcetitrated (before assessing the response to the lower dose) after one week to irbesartan/hydrochlorothiazide 300 mg/25 mg or irbesartan 300 mg, respectively.

The study recruited 58% males. The mean age of patients was 52.5 years, 13% were \geq 65 years of age, and just 2% were \geq 75 years of age. Twelve percent (12%) of patients were diabetic, 34% were hyperlipidemic and the most frequent cardiovascular condition was stable angina pectoris in 3.5% of the participants.

The primary objective of this study was to compare the proportion of patients whose SeDBP was controlled (SeDBP $<$ 90 mmHg) at Week 5 of treatment. Forty-seven percent (47.2%) of patients on the combination achieved trough SeDBP $<$ 90 mmHg compared to 33.2% of patients on irbesartan ($p = 0.0005$). The mean baseline blood pressure was approximately 172/113 mmHg in each treatment group and decreases of SeSBP/SeDBP at five weeks were 30.8/24.0 mmHg and 21.1/19.3 mmHg for irbesartan/hydrochlorothiazide and irbesartan, respectively ($p < 0.0001$).

The types and incidences of adverse events reported for patients treated with the combination were similar to the adverse event profile for patients on monotherapy. During the 8-week treatment period, there were no reported cases of syncope in either treatment group. There were 0.6% and 0% of patients with hypotension and 2.8% and 3.1% of patients with dizziness as adverse reactions reported in the combination and monotherapy groups, respectively.

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

Two large randomised, controlled trials (ONTARGET (ONgoing Telmisartan Alone and in combination with Ramipril Global Endpoint Trial) and VA NEPHRON-D (The Veterans Affairs Nephropathy in Diabetes)) have examined the use of the combination of an ACE-inhibitor with an angiotensin II receptor blocker. ONTARGET was a study conducted in patients with a history of cardiovascular or cerebrovascular disease, or type 2 diabetes mellitus accompanied by evidence of end-organ damage. VA NEPHRON-D was a study in patients with type 2 diabetes mellitus and diabetic nephropathy.

These studies have shown no significant beneficial effect on renal and/or cardiovascular outcomes and mortality, while an increased risk of hyperkalaemia, acute kidney injury and/or hypotension as compared to monotherapy was

observed. Given their similar pharmacodynamic properties, these results are also relevant for other ACE-inhibitors and angiotensin II receptor blockers.

ACE-inhibitors and angiotensin II receptor blockers should therefore not be used concomitantly in patients with diabetic nephropathy.

ALTITUDE (Aliskiren Trial in Type 2 Diabetes Using Cardiovascular and Renal Disease Endpoints) was a study designed to test the benefit of adding aliskiren to a standard therapy of an ACE-inhibitor or an angiotensin II receptor blocker in patients with type 2 diabetes mellitus and chronic kidney disease, cardiovascular disease, or both. The study was terminated early because of an increased risk of adverse outcomes. Cardiovascular death and stroke were both numerically more frequent in the aliskiren group than in the placebo group and adverse events and serious adverse events of interest (hyperkalaemia, hypotension and renal dysfunction) were more frequently reported in the aliskiren group than in the placebo group.

Non-melanoma skin cancer:

Based on available data from epidemiological studies, cumulative dose dependent association between HCTZ and NMSC has been observed. One study included a population comprised of 71,533 cases of BCC and of 8,629 cases of SCC matched to 1,430,833 and 172,462 population controls, respectively. High HCTZ use ($\geq 50,000$ mg cumulative) was associated with an adjusted OR of 1.29 (95% CI: 1.23-1.35) for BCC and 3.98 (95% CI: 3.68-4.31) for SCC. A clear cumulative dose response relationship was observed for both BCC and SCC. Another study showed a possible association between lip cancer (SCC) and exposure to HCTZ: 633 cases of lip-cancer were matched with 63,067 population controls, using a risk-set sampling strategy. A cumulative dose-response relationship was demonstrated with an adjusted OR 2.1 (95% CI: 1.7-2.6) increasing to OR 3.9 (3.0-4.9) for high use ($\sim 25,000$ mg) and OR 7.7 (5.7-10.5) for the highest cumulative dose ($\sim 100,000$ mg) (see also section Special warnings and precautions for use).

Pharmacokinetic properties

Concomitant administration of hydrochlorothiazide and irbesartan has no effect on the pharmacokinetics of either medicinal product.

Absorption

Irbesartan and hydrochlorothiazide are orally active agents and do not require biotransformation for their activity. Following oral administration of CoAprovel, the absolute oral bioavailability is 60-80% and 50-80% for irbesartan and hydrochlorothiazide, respectively. Food does not affect the bioavailability of CoAprovel. Peak plasma concentration occurs at 1.5-2 hours after oral administration for irbesartan and 1-2.5 hours for hydrochlorothiazide.

Distribution

Plasma protein binding of irbesartan is approximately 96%, with negligible binding to cellular blood components. The volume of distribution for irbesartan is 53-93 litres. Hydrochlorothiazide is 68% protein-bound in the plasma, and its apparent volume of distribution is 0.83-1.14 l/kg.

Linearity/non-linearity

Irbesartan exhibits linear and dose proportional pharmacokinetics over the dose range of 10 to 600 mg. A less than proportional increase in oral absorption at doses beyond 600 mg was observed; the mechanism for this is unknown. The total body and renal clearance are 157-176 and 3.0-3.5 ml/min, respectively. The terminal elimination half-life of irbesartan is 11-15 hours. Steady-state plasma concentrations are attained within 3 days after initiation of a once-daily dosing regimen. Limited accumulation of irbesartan ($< 20\%$) is observed in plasma upon repeated once-daily dosing. In a study, somewhat higher plasma concentrations of irbesartan were observed in female hypertensive patients. However, there was no difference in the half-life and accumulation of irbesartan. No dosage adjustment is necessary in female patients. Irbesartan AUC and C_{max} values were also somewhat greater in elderly subjects (≥ 65 years) than those of young subjects (18-40 years). However the terminal half-life was not significantly altered. No dosage adjustment is necessary in elderly patients. The mean plasma half-life of hydrochlorothiazide reportedly ranges from 5-15 hours.

Biotransformation

Following oral or intravenous administration of ^{14}C irbesartan, 80-85% of the circulating plasma radioactivity is attributable to unchanged irbesartan. Irbesartan is metabolized by the liver via glucuronide conjugation and oxidation. The major circulating metabolite is irbesartan glucuronide (approximately 6%). *In vitro* studies indicate that irbesartan is primarily oxidised by the cytochrome P450 enzyme CYP2C9; isoenzyme CYP3A4 has negligible effect.

Elimination

Irbesartan and its metabolites are eliminated by both biliary and renal pathways. After either oral or intravenous administration of ¹⁴C irbesartan, about 20% of the radioactivity is recovered in the urine, and the remainder in the faeces. Less than 2% of the dose is excreted in the urine as unchanged irbesartan. Hydrochlorothiazide is not metabolized but is eliminated rapidly by the kidneys. At least 61% of the oral dose is eliminated unchanged within 24 hours. Hydrochlorothiazide crosses the placental but not the blood-brain barrier, and is excreted in breast milk.

Renal impairment: in patients with renal impairment or those undergoing haemodialysis, the pharmacokinetic parameters of irbesartan are not significantly altered. Irbesartan is not removed by haemodialysis. In patients with creatinine clearance < 20 ml/min, the elimination half-life of hydrochlorothiazide was reported to increase to 21 hours.

Hepatic impairment: in patients with mild to moderate cirrhosis, the pharmacokinetic parameters of irbesartan are not significantly altered. Studies have not been performed in patients with severe hepatic impairment.

Preclinical safety data

Irbesartan/hydrochlorothiazide:

The potential toxicity of the irbesartan/hydrochlorothiazide combination after oral administration was evaluated in rats and macaques in studies lasting up to 6 months. There were no toxicological findings observed of relevance to human therapeutic use. The following changes, observed in rats and macaques receiving the irbesartan/hydrochlorothiazide combination at 10/10 and 90/90 mg/kg/day, were also seen with one of the two medicinal products alone and/or were secondary to decreases in blood pressure (no significant toxicologic interactions were observed):

- kidney changes, characterized by slight increases in serum urea and creatinine, and hyperplasia/hypertrophy of the juxtaglomerular apparatus, which are a direct consequence of the interaction of irbesartan with the renin-angiotensin system;
- slight decreases in erythrocyte parameters (erythrocytes, haemoglobin, haematocrit);
- stomach discoloration, ulcers and focal necrosis of gastric mucosa were observed in few rats in a 6 months toxicity study at irbesartan 90 mg/kg/day, hydrochlorothiazide 90 mg/kg/day, and irbesartan/hydrochlorothiazide 10/10 mg/kg/day. These lesions were not observed in macaques;
- decreases in serum potassium due to hydrochlorothiazide and partly prevented when hydrochlorothiazide was given in combination with irbesartan.

Most of the above mentioned effects appear to be due to the pharmacological activity of irbesartan (blockade of angiotensin-II-induced inhibition of renin release, with stimulation of the renin-producing cells) and occur also with angiotensin converting enzyme inhibitors. These findings appear to have no relevance to the use of therapeutic doses of irbesartan/hydrochlorothiazide in humans.

No teratogenic effects were seen in rats given irbesartan and hydrochlorothiazide in combination at doses that produced maternal toxicity. The effects of the irbesartan/hydrochlorothiazide combination on fertility have not been evaluated in animal studies, as there is no evidence of adverse effect on fertility in animals or humans with either irbesartan or hydrochlorothiazide when administered alone. However, another angiotensin-II antagonist affected fertility parameters in animal studies when given alone. These findings were also observed with lower doses of this other angiotensin-II antagonist when given in combination with hydrochlorothiazide.

There was no evidence of mutagenicity or clastogenicity with the irbesartan/hydrochlorothiazide combination. The carcinogenic potential of irbesartan and hydrochlorothiazide in combination has not been evaluated in animal studies.

Irbesartan: there was no evidence of abnormal systemic or target organ toxicity at clinically relevant doses. In preclinical safety studies, high doses of irbesartan (≥ 250 mg/kg/day in rats and ≥ 100 mg/kg/day in macaques) caused a reduction of red blood cell parameters (erythrocytes, haemoglobin, haematocrit). At very high doses (≥ 500 mg/kg/day) degenerative changes in the kidneys (such as interstitial nephritis, tubular distention, basophilic tubules, increased plasma concentrations of urea and creatinine) were induced by irbesartan in the rat and the macaque and are considered secondary to the hypotensive effects of the medicinal product which led to decreased

renal perfusion. Furthermore, irbesartan induced hyperplasia/hypertrophy of the juxtaglomerular cells (in rats at ≥ 90 mg/kg/day, in macaques at ≥ 10 mg/kg/day). All of these changes were considered to be caused by the pharmacological action of irbesartan. For therapeutic doses of irbesartan in humans, the hyperplasia/hypertrophy of the renal juxtaglomerular cells does not appear to have any relevance.

There was no evidence of mutagenicity, clastogenicity or carcinogenicity.

Fertility and reproductive performance were not affected in studies of male and female rats even at oral doses of irbesartan causing some parental toxicity (from 50 to 650 mg/kg/day), including mortality at the highest dose. No significant effects on the number of corpora lutea, implants, or live foetuses were observed. Irbesartan did not affect survival, development, or reproduction of offspring. Studies in animals indicate that the radiolabelled irbesartan is detected in rat and rabbit foetuses. Irbesartan is excreted in the milk of lactating rats.

Animal studies with irbesartan showed transient toxic effects (increased renal pelvic cavitation, hydroureter or subcutaneous oedema) in rat foetuses, which were resolved after birth. In rabbits, abortion or early resorption was noted at doses causing significant maternal toxicity, including mortality. No teratogenic effects were observed in the rat or rabbit.

Hydrochlorothiazide: although equivocal evidence for a genotoxic or carcinogenic effect was found in some experimental models, the extensive human experience with hydrochlorothiazide has failed to show an association between its use and an increase in neoplasms.

PHARMACEUTICAL PARTICULARS

List of Excipients

Tablet core: lactose monohydrate, microcrystalline cellulose, croscarmellose sodium, hypromellose, silicon dioxide, magnesium stearate

Film-coating:

- Opadry Pink 32 F 24503 consist of : lactose monohydrate, hypromellose, titanium dioxide (E171), macrogol, red and yellow ferric oxides (E172)
- Carnauba wax

Incompatibilities

Not applicable.

Special precautions for storage

Do not store above 30°C.

Store in the original package.

Shelf life

Do not use later than the date of Expiry.

Nature and contents of container

CoAprovel film coated tablets are packaged in cartons containing 2 blisters of 14 film coated tablets in PVC/PE/PVDC/Aluminium blisters.

Instructions for use and handling, and disposal

No special requirements.

HARUS DENGAN RESEP DOKTER

COAPROVEL 150 mg/12.5 mg Reg. No. DKI 1077402817A1

COAPROVEL 300 mg/12.5 mg Reg. No. DKI 1077402817B1

Manufactured by:

SANOFI WITHROP INDUSTRIE

1, rue de la Vierge - Ambarès et Lagrave

33565 Carbon Blanc Cedex – France

Registered by:

DISETUJUI OLEH BPOM : 21/10/2025
Based on CoAprovel-EU SmPC (16 Feb 2022)

ID : EREG100022VR12500251
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PT Kalventis Sinergi Farma,
Jakarta - Indonesia



sanofi

**Informasi untuk pasien
CoAprovel 150 mg/12,5 mg dan 300 mg/12,5 mg tablet salut selaput
Irbesartan/hidroklorotiazid**

Baca seluruh isi leaflet ini dengan seksama sebelum Anda mulai mengonsumsi obat ini karena mengandung informasi penting untuk Anda.

- Simpan leaflet ini. Anda mungkin perlu membacanya lagi.
- Jika Anda memiliki pertanyaan lebih lanjut, hubungi dokter atau apoteker Anda.
- Obat ini telah diresepkan untuk Anda. Jangan diberikan kepada orang lain. Produk ini dapat berdampak negatif bagi mereka, sekalipun gejala yang Anda dan mereka alami serupa.
- Jika Anda mengalami efek samping, konsultasikan kepada dokter atau apoteker Anda. Ini termasuk kemungkinan efek samping yang tidak tercantum dalam leaflet ini. Lihat bagian 4.

Apa yang tercantum pada leaflet ini:

1. Apa itu CoAprovel dan kegunaannya
2. Apa yang perlu Anda ketahui sebelum mengonsumsi CoAprovel
3. Cara mengonsumsi CoAprovel
4. Efek samping yang mungkin terjadi
5. Bagaimana cara menyimpan CoAprovel
6. Isi dari kemasan dan informasi lainnya

1. Apa itu CoAprovel dan kegunaannya

CoAprovel adalah kombinasi dari dua zat aktif, irbesartan dan hidroklorotiazid.

CoAprovel adalah kombinasi antagonis reseptor angiotensin II, irbesartan, dan diuretik tiazid, hidroklorotiazid. Kombinasi ini memiliki efek antihipertensi aditif, menurunkan tekanan darah lebih besar dibandingkan jika mengonsumsi salah satu komponen saja.

CoAprovel digunakan untuk mengobati tekanan darah tinggi bila pengobatan dengan irbesartan atau hidroklorotiazid saja tidak memberikan kontrol yang memadai terhadap tekanan darah Anda. Untuk pengobatan awal untuk hipertensi berat dan diperlukan kontrol tekanan darah (dalam beberapa hari hingga beberapa minggu).

2. Apa yang perlu Anda ketahui sebelum mengonsumsi CoAprovel

Jangan konsumsi CoAprovel

- jika Anda alergi terhadap irbesartan atau bahan lain dari obat ini (tercantum di bagian 6)
- jika Anda alergi terhadap hidroklorotiazid atau obat turunan sulfonamida
- jika Anda sedang hamil lebih dari 3 bulan. (Lebih baik menghindari CoAprovel pada awal kehamilan juga – lihat bagian kehamilan)
- jika Anda memiliki masalah hati atau ginjal yang berat
- jika dokter Anda menyatakan bahwa Anda memiliki kadar kalsium tinggi atau kalium dalam darah yang rendah secara terus-menerus
- jika Anda menderita diabetes atau gangguan fungsi ginjal dan Anda diobati dengan obat penurun tekanan darah yang mengandung aliskiren.

Peringatan dan Perhatian

Bicaralah dengan dokter Anda sebelum mengonsumsi CoAprovel dan jika Anda:

- mengalami muntah atau diare yang berlebihan
- menderita masalah ginjal atau menjalani transplantasi ginjal
- menderita masalah jantung
- menderita masalah hati
- menderita diabetes
- mengalami gejala kadar gula darah rendah, terutama jika Anda sedang diobati karena diabetes.
- menderita lupus eritematosus (juga dikenal sebagai lupus atau SLE)
- menderita aldosteronisme primer (suatu kondisi yang berhubungan dengan tingginya produksi hormon aldosteron yang menyebabkan retensi natrium dan pada gilirannya terjadi peningkatan tekanan darah).
- mengonsumsi obat-obatan berikut yang digunakan untuk mengobati tekanan darah tinggi:
 - penghambat ACE khususnya jika Anda memiliki masalah ginjal yang berkaitan dengan diabetes.
 - aliskiren.
- menderita kanker kulit atau jika Anda mengalami lesi kulit yang baru dan tidak terduga selama pengobatan
- pengobatan dengan hidroklorotiazid, terutama penggunaan jangka panjang dengan dosis tinggi, dapat meningkatkan risiko beberapa jenis kanker kulit dan kanker bibir (kanker kulit non-melanoma). Lindungi kulit Anda dari paparan sinar matahari dan sinar UV saat mengonsumsi CoAprovel
- mengalami masalah pernapasan atau paru-paru (termasuk peradangan atau cairan di paru-paru) akibat konsumsi hidroklorotiazid di masa lalu. Jika Anda

mengalami sesak napas yang parah atau kesulitan bernapas setelah mengonsumsi CoAprovel, segera cari bantuan medis. Penggunaan obat mengandung *Hydrochlorothiazide* memiliki potensi risiko terjadinya *Acute Respiratory Distress Syndrome (ARDS)* yaitu kondisi yang dipicu oleh cedera pada paru-paru sehingga menyebabkan rendahnya kadar oksigen dalam darah dan dapat menyebabkan komplikasi serius dan berpotensi fatal. Hentikan penggunaan obat mengandung *Hydrochlorothiazide* jika terjadi gejala ARDS dan segera cari pertolongan medis (lihat bagian Efek Samping). Penggunaan obat mengandung *Hydrochlorothiazide* dikontraindikasikan bagi pasien yang pernah mengalami ARDS pada penggunaan *Hydrochlorothiazide* sebelumnya.

Dokter Anda mungkin memeriksa fungsi ginjal, tekanan darah, dan jumlah elektrolit Anda (misalnya kalium) dalam darah Anda secara berkala.

Lihat juga informasi di bawah judul "Jangan mengonsumsi CoAprovel". Anda harus memberi tahu dokter Anda jika Anda merasa (atau mungkin) hamil. CoAprovel tidak direkomendasikan pada awal kehamilan, dan tidak boleh dikonsumsi jika Anda sedang hamil lebih dari 3 bulan karena dapat menyebabkan bahaya serius pada bayi Anda jika digunakan pada tahap itu (lihat bagian kehamilan).

Anda juga harus memberi tahu dokter Anda:

- jika Anda sedang menjalani diet rendah garam
- jika Anda memiliki tanda-tanda seperti rasa haus yang tidak normal, mulut kering, mengantuk, nyeri atau kram otot, mual, muntah, atau detak jantung cepat yang tidak normal yang mungkin mengindikasikan adanya efek berlebihan dari hidroklorotiazid (terkandung dalam CoAprovel)
- jika Anda mengalami peningkatan kepekaan kulit terhadap matahari
- jika Anda mengalami penurunan penglihatan atau nyeri pada salah satu atau kedua mata Anda saat menggunakan CoAprovel. Ini bisa menjadi gejala akumulasi cairan di lapisan pembuluh darah mata (efusi koroidal) atau peningkatan tekanan di dalam bola mata Anda (glaukoma) dan dapat terjadi dalam beberapa jam sampai seminggu setelah konsumsi CoAprovel. Hal ini dapat menyebabkan kehilangan penglihatan permanen, jika tidak diobati. Jika Anda sebelumnya memiliki alergi penisilin atau sulfonamida, Anda dapat berisiko lebih tinggi mengalami ini. Anda harus menghentikan pengobatan CoAprovel dan segera mencari bantuan medis.

Hidroklorotiazid yang terkandung dalam obat ini dapat memberikan hasil positif dalam tes anti-doping.

Anak-anak dan remaja

CoAprovel tidak boleh diberikan kepada anak-anak dan remaja .

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Obat-obatan lain dan CoAprovel

Beri tahu dokter atau apoteker Anda jika Anda sedang mengonsumsi, baru saja mengonsumsi, atau mungkin mengonsumsi obat lain.

Agen diuretik seperti hidroklorotiazid yang terkandung dalam CoAprovel mungkin dapat berefek dengan obat lain. Sediaan yang mengandung litium tidak boleh dikonsumsi dengan CoAprovel tanpa pengawasan yang ketat oleh dokter Anda.

Dokter Anda mungkin perlu mengubah dosis Anda dan/atau mengambil tindakan pencegahan lainnya:

Jika Anda menggunakan *ACE-inhibitor* atau aliskiren (lihat juga informasi pada "Jangan konsumsi CoAprovel" dan "Peringatan dan Perhatian").

Anda mungkin perlu melakukan pemeriksaan darah jika Anda mengonsumsi:

- suplemen kalium
- pengganti garam yang mengandung kalium
- obat hemat kalium atau diuretik lainnya (pil air)
- beberapa obat pencahar
- obat untuk pengobatan asam urat
- suplemen vitamin D terapeutik
- obat-obatan untuk mengontrol irama jantung
- obat untuk diabetes (obat oral seperti repaglinide atau insulin)
- carbamazepine (obat untuk pengobatan epilepsi).

Penting juga untuk memberi tahu dokter Anda jika Anda menggunakan obat lain untuk menurunkan tekanan darah Anda, steroid, obat untuk mengobati kanker, penghilang rasa sakit, obat radang sendi, atau resin kolestiramin dan kolestipol untuk menurunkan kolesterol darah.

CoAprovel dengan makanan dan minuman

CoAprovel dapat dikonsumsi dengan atau tanpa makanan.

Karena hidroklorotiazid yang terkandung dalam CoAprovel, jika Anda minum alkohol selama pengobatan dengan obat ini, Anda mungkin mengalami peningkatan rasa pusing saat berdiri, khususnya saat bangun dari posisi duduk.

Kehamilan, menyusui dan kesuburan

Kehamilan

Anda harus memberi tahu dokter Anda jika Anda merasa (atau mungkin) hamil. Dokter Anda biasanya akan menyarankan Anda untuk berhenti minum CoAprovel sebelum Anda hamil atau segera setelah Anda mengetahui kehamilan Anda dan akan menyarankan Anda untuk konsumsi obat lain selain CoAprovel. CoAprovel tidak direkomendasikan pada awal kehamilan, dan tidak boleh dikonsumsi saat hamil lebih dari 3 bulan, karena mungkin akan menyebabkan bahaya serius pada bayi Anda jika digunakan setelah bulan ketiga kehamilan.

Menyusui

Beri tahu dokter Anda jika Anda sedang menyusui atau akan mulai menyusui. CoAprovel tidak direkomendasikan untuk ibu yang sedang menyusui, dan dokter Anda mungkin akan memilih pengobatan lain untuk Anda jika Anda ingin menyusui, terutama jika bayi Anda baru lahir, atau lahir prematur.

Mengemudi dan mengoperasikan mesin

CoAprovel tidak akan mempengaruhi kemampuan Anda mengemudi atau mengoperasikan mesin. Namun, sesekali pusing atau merasa kelelahan dapat terjadi selama pengobatan tekanan darah tinggi. Jika Anda mengalami ini, bicarakan dengan dokter Anda sebelum mencoba mengemudi atau mengoperasikan mesin.

CoAprovel mengandung laktosa. Jika Anda memiliki intoleransi galaktosa, defisiensi laktase total atau gangguan penyerapan glukosa-galaktosa, hubungi dokter Anda sebelum mengonsumsi obat ini.

CoAprovel mengandung natrium. Obat ini mengandung kurang dari 1 mmol natrium (23 mg) per tablet, yang artinya, pada dasarnya 'bebas natrium'.

3. Cara mengonsumsi CoAprovel

Selalu minum obat ini sama seperti yang dikatakan dokter Anda. Tanyakan kepada dokter atau apoteker Anda jika Anda tidak yakin.

Dosis

Dosis CoAprovel yang dianjurkan adalah satu tablet sehari. CoAprovel biasanya akan diresepkan oleh dokter Anda bila pengobatan Anda sebelumnya tidak cukup menurunkan tekanan darah Anda.

Dokter Anda akan menginstruksikan Anda cara beralih dari perawatan sebelumnya ke CoAprovel.

Metode administrasi

CoAprovel digunakan secara oral. Telan tablet dengan jumlah cairan yang cukup (misalnya satu gelas air). Anda dapat mengonsumsi CoAprovel dengan atau tanpa makanan. Cobalah untuk mengonsumsi dosis harian Anda pada waktu yang sama setiap harinya. Penting bagi Anda untuk terus menggunakan CoAprovel sampai dokter memberi tahu Anda sebaliknya.

Efek maksimal penurunan tekanan darah seharusnya dicapai 6-8 minggu setelah memulai pengobatan.

Jika Anda mengonsumsi lebih banyak CoAprovel dari yang seharusnya

Jika Anda secara tidak sengaja meminum terlalu banyak tablet, segera hubungi dokter Anda.

Anak-anak tidak boleh mengonsumsi CoAprovel

CoAprovel tidak boleh diberikan kepada anak-anak. Jika seorang anak menelan beberapa tablet, hubungi dokter Anda segera.

Jika Anda lupa konsumsi CoAprovel

Jika Anda secara tidak sengaja melewatkan dosis harian, konsumsi saja dosis berikutnya seperti biasa. Jangan mengambil dosis ganda untuk mengganti dosis yang terlewat.

Jika Anda memiliki pertanyaan lebih lanjut tentang penggunaan obat ini, tanyakan kepada dokter atau apoteker Anda.

4. Kemungkinan efek samping

Seperti semua obat, obat ini bisa menimbulkan efek samping, meski tidak semua orang mengalaminya.

Beberapa dari efek ini mungkin serius dan mungkin memerlukan perhatian medis.

Frekuensi efek samping yang tercantum di bawah ini ditentukan menggunakan konvensi berikut:

sangat umum ($\geq 1/10$); umum ($\geq 1/100$ hingga $< 1/10$); tidak umum ($\geq 1/1.000$ hingga $< 1/100$); jarang ($\geq 1/10.000$ hingga $< 1/1.000$); sangat jarang ($< 1/10.000$). Dalam setiap pengelompokan frekuensi, efek yang tidak diinginkan disajikan dalam urutan penurunan keseriusan.

Efek samping dalam plasebo uji coba terkontrol dan laporan spontan

Umum: peningkatan nitrogen urea darah, kreatinin, dan kreatinin kinase; pusing; mual/muntah; buang air kecil yang tidak normal; bengkak; kelelahan

Tidak umum: Penurunan serum kalium dan natrium; pingsan, tekanan darah rendah, takikardi (detak jantung meningkat; edema (bengkak); pusing saat berdiri dari duduk atau berbaring; dare; gangguan fungsi ginjal termasuk gagal ginjal; kemerahan; disfungsi seksual (masalah dengan kinerja seksual)

Tidak diketahui: sakit kepala; tinnitus (telinga berdenging); batuk, dyspepsia (gangguan pencernaan), dysgeusia (gangguan indera perasa); artralgia (nyeri sendi), myalgia (nyeri otot); kadar kalium tinggi dalam darah; kasus hipersensitivitas seperti edema (bengkak), ruam, dan lesi pada kulit; peradangan pada hati, gangguan fungsi hati.

Efek samping yang hanya terkait dengan irbesartan

Tidak umum: nyeri dada

Tidak diketahui: anemia (kurangnya jumlah sel darah merah), trombositopenia (kurangnya jumlah keping darah); reaksi alergi (syok anafilaktik), trombositopenik purpura (kondisi yang menyebabkan tubuh mudah memar atau berdarah), psoriasis (peradangan kulit), kondisi sensitif terhadap sinar UV dari sinar matahari; hipoglikemia (rendahnya kadar gula darah).

Efek samping yang hanya terkait dengan hidroklorotiazid

Sangat jarang: *Acute Respiratory Distress Syndrome (ARDS)* dengan gejala seperti sesak nafas, denyut jantung cepat, kuku jari/kulit/bibir berwarna biru, dan nyeri dada.

Tidak diketahui: ketidakseimbangan elektrolit termasuk hipokalemia (kekurangan kalium) dan hyponatremia (kekurangan natrium), hiperurisemia (kadar asam urat tinggi), glikosuria (kandungan gula dalam urin), hiperglikemia (peningkatan kadar gula dalam darah), peningkatan kadar kolesterol dan trigliserida; detak jantung yang tidak normal; anemia aplastik (sumsum tulang belakang berhenti memproduksi sel darah merah, bone marrow depression (sindrom kegagalan sumsum tulang), neutropenia (penurunan jumlah neutrofil dalam darah)/agranulositosis (sumsum tulang berhenti memproduksi sel darah putih), anemia hemolitik (kurangnya jumlah sel darah merah akibat sel darah merah hancur atau mati lebih cepat dari waktu yang seharusnya), leukopenia (rendahnya jumlah sel darah putih), trombositopenia (kurangnya jumlah keping darah), vertigo, parastesia (kesemutan), pusing dan/atau perasaan akan pingsan, gelisah; penglihatan kabur, xanthopsia (pandangan berwarna kuning), rabun jauh yang sudah akut, penutupan sudut akut, efusi koroid (akumulasi cairan di lapisan pembuluh darah mata; gangguan pernapasan (termasuk pneumonitis (peradangan jaringan paru-paru) dan edema paru (penumpukan cairan di paru-paru)); pankreatitis (peradangan pada pancreas), anoreksia (gangguan makan), diare, sulit buang air besar, iritasi lambung, sialadenitis (peradangan pada kelenjar ludah), kehilangan selera makan; peradangan dan pembengkakan ginjal, gagal ginjal; reaksi alergi, reaksi hipersensitifitas pada kulit, peradangan dinding pembuluh darah, lupus, reaksi tubuh terhadap kondisi sensitif paparan sinar UV dari sinar matahari), ruam, lesi pada kulit; kelemahan, kejang otot; tekanan darah rendah akibat perubahan posisi tubuh; demam; penyakit kuning; depresi, gangguan tidur; kanker kulit non-melanoma (karsinoma sel basal dan karsinoma sel skuamosa).

Pelaporan efek samping

Jika Anda mendapatkan efek samping, bicarakan dengan dokter atau apoteker Anda. Ini termasuk kemungkinan efek samping yang tidak tercantum dalam leaflet ini.

Anda juga dapat melaporkan efek samping secara langsung ke Industri Farmasi melalui kontak berikut farmakovigilans@kalventis.com.

Dengan melaporkan efek samping, Anda dapat membantu memberikan informasi tentang keamanan obat ini.

5. Bagaimana cara menyimpan CoAprovel

Jauhkan obat ini dari pandangan dan jangkauan anak-anak.

Jangan gunakan obat ini setelah tanggal kedaluwarsa yang tertera di karton dan di blister sesudah EXP. Tanggal kedaluwarsa mengacu pada hari terakhir bulan itu.

Jangan simpan di atas 30°C.

Simpan dalam kemasan aslinya untuk melindungi dari kelembaban.

Jangan membuang obat apa pun melalui air limbah atau limbah rumah tangga. Tanyakan apoteker Anda bagaimana caranya membuang obat-obatan yang tidak lagi Anda gunakan. Langkah-langkah ini akan membantu melindungi lingkungan.

6. Isi dari kemasan dan informasi lainnya

Apa kandungan CoAprovel

- Zat aktifnya adalah irbesartan dan hidroklorotiazid. Setiap tablet salut selaput
- CoAprovel 150 mg/12,5 mg mengandung irbesartan 150 mg dan hidroklorotiazid 12,5 mg.
- CoAprovel 300 mg/12,5 mg mengandung irbesartan 300 mg dan hidroklorotiazid 12,5 mg.
- Bahan lainnya adalah *lactose monohydrate, microcrystalline cellulose, croscarmellose sodium, Hypromellose, silicon dioxide, magnesium stearate*
Film-coating:
 - Opadry Pink 32 F 24503 yang mengandung: *lactose monohydrate, Hypromellose, titanium dioxide (E171), macrogol, red and yellow ferric oxides (E172)*
 - *Carnauba wax*

Silakan lihat bagian 2 "CoAprovel mengandung laktosa".

Seperti apa CoAprovel dan isi kemasannya

Tablet salut selaput CoAprovel 150 mg/12,5 mg berwarna *peach (orang-pink)*, bikonveks, berbentuk oval dengan bentuk hati di satu sisi dan nomor 2875 terukir di sisi lainnya.

Tablet salut selaput CoAprovel 300 mg/12,5 mg berwarna *peach (orange-pink)*, bikonveks, berbentuk oval dengan bentuk hati di satu sisi dan nomor 2876 terukir di sisi lainnya.

CoAprovel 150 mg/12,5 mg dan 300 mg/12,5 mg tablet salut selaput tersedia dalam kemasan blister berisi 14 tablet salut selaput.

HARUS DENGAN RESEP DOKTER

COAPROVEL 150 mg/12,5 mg No. Registrasi DKI1077402817A1
COAPROVEL 300 mg/12,5 mg No. Registrasi DKI1077402817B1

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