

LSORETIC

SCHEDULING STATUS [53]

1. NAME OF THE MEDICINE LSORETIC 10/12.5 tablets LSORETIC 20/12.5 tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

LSORETIC 10/12.5 Each tablet contains lisinopril dihydrate equivalent to lisinopril 10 mg and hydrochlorothiazide 12.5 mg.
LSORETIC 20/12.5 Each tablet contains lisinopril dihydrate equivalent to lisinopril 20 mg and hydrochlorothiazide 12.5 mg.
LSORETIC 10/12.5 contains sugar (mannitol 18.70 mg/tablet).
LSORETIC 20/12.5 contains sugar (mannitol 38.30 mg/tablet).
Essentially sodium free.
For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Tablets.
LSORETIC 10/12.5 A peach coloured, round, uncoated, biconvex tablet, debossed 'LH' on one side and plain on the other.
LSORETIC 20/12.5 A white coloured, round, uncoated, biconvex tablet, debossed 'LH' on one side and score-line on the other.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

LSORETIC is indicated for the treatment of mild to moderate hypertension in patients who have been stabilised on their individual components, given in the same proportions.

4.2 Posology and method of administration

Posology

Essential hypertension:

The usual dosage is one tablet daily, taken at approximately the same time each day. It is recommended that if the desired clinical effect cannot be achieved within 2 - 4 weeks with this dosage, the dosage may be increased to a maximum of two tablets, administered once daily.

Prior treatment with diuretics:

Symptomatic hypertension may occur after the initial dose of LSORETIC, this phenomenon is most likely to occur in patients who are volume and/or salt depleted as a result of prior diuretic therapy. If possible, the diuretic therapy should be discontinued for 2 - 3 days prior to initiation of therapy with LSORETIC, or if this is not possible, lisinopril should be given alone at a low initial dose of 5 mg.

Special populations

Renal impairment:

Hydrochlorothiazide may not be a suitable diuretic for use in patients with mild to moderate renal impairment. Hydrochlorothiazide is contraindicated in severe renal impairment (creatinine clearance values of 30 mL/min or below) (see section 4.3). LSORETIC should not be used in patients with renal impairment in any patient with renal insufficiency. In patients with creatinine clearance of >30 and <50 mL/min, LSORETIC may be used, but only after titration of the individual components.

Use in the elderly:

There is no significant difference in the efficacy and tolerability of lisinopril and hydrochlorothiazide, administered concomitantly, between elderly and younger hypertensive patients.

Paediatric population

Safety and efficacy in children have not been established.

Method of administration

For oral use. Swallow the tablet with a drink of water.

Missed dose

Medical practitioners should advise patients who forget to take LSORETIC to take a dose as soon as possible and then continue with the normal dose. Patients should not take a double dose to compensate for the missed dose.

4.3 Contraindications

LSORETIC is contraindicated in:

- hypersensitivity to lisinopril, hydrochlorothiazide or to any of the ingredients of LSORETIC
- hypersensitivity to lithium and/or current basal cell carcinoma and/or squamous cell carcinoma of the skin and lip
- hypersensitivity to sulphonamides and sulphonamide-derived medicines
- a history of angioedema related to previous therapy with angiotensin-converting enzyme (ACE) inhibitors or angiotensin receptor blockers (ARBs). Such patients must never again be given these medicines
- hereditary or idiopathic angioedema (see section 4.4)
- hypertrophic obstructive cardiomyopathy (HOCM)
- severe renal function impairment (creatinine clearance less than 30 mL/min)
- anuria
- bilateral renal artery stenosis
- renal artery stenosis in patients with a single kidney
- aortic stenosis
- concomitant therapy with potassium sparing diuretics such as spironolactone, triamterene, amiloride
- porphyria
- hydrochlorothiazide, as in LSORETIC, should not be given to patients with Addison's disease
- lithium therapy concomitant administration with LSORETIC may lead to toxic blood concentrations of lithium
- severe hepatic impairment
- concomitant administration with renin inhibitors such as aliskiren-containing medicines
- the concomitant use of ACE inhibitors with fluroglucortide is contraindicated in patients with moderate to severe renal impairment (creatinine < 30 mL/min) and in the elderly patients (see sections 4.4 and 4.5)
- concomitant use of LSORETIC with sacubitril/valsartan therapy. LSORETIC must not be initiated earlier than 36 hours after the last dose of sacubitril/valsartan (see sections 4.4 and 4.5)
- pregnancy and lactation.

LSORETIC contains sodium.
LSORETIC contains less than 1 mmol (0.023g) sodium per tablet, that is to say essentially 'sodium free'.

4.4 Special warnings and precautions for use

Should a woman become pregnant while receiving LSORETIC, the treatment should be stopped promptly and switched to a different class of antihypertensive medicine (see sections 4.3 and 4.6).

Renal transplantation

LSORETIC should not be administered, since there is no experience with patients recently transplanted with a kidney.

Anaphylactoid reactions in haemodialysis patients

The use of LSORETIC is not indicated in pallial therapy requiring dialysis for renal failure. Anaphylactoid reactions have been reported in patients, undergoing haemodialysis procedures with certain dialysis membranes (e.g. with the high-flux membranes AN 69 and during low-dilute lipoprotein apheresis with dextran sulphate) and concomitant treatment with an ACE inhibitor. Consideration to the use of a different type of dialysis membrane or a different class of antihypertensive medicine should be given in these patients.

Aortic and mitral valve stenosis/hypertrophic cardiomyopathy

LSORETIC should not be given to patients with mitral valve stenosis and obstruction in the outflow of the left ventricle, such as aortic stenosis or hypertrophic cardiomyopathy (see section 4.3).

Dual blockade of the renin-angiotensin-aldosterone system (RAAS) with aliskiren-containing medicines
Dual blockade of the renin-angiotensin-aldosterone system by combining lisinopril with renin inhibitors such as aliskiren is contraindicated since there is an increased risk of hypotension, hyperkalaemia and changes in renal function (see sections 4.3 and 4.5).

Renal insufficiency

Hydrochlorothiazide, as in LSORETIC, may not be a suitable diuretic for use in patients with renal impairment and is ineffective at creatinine clearance values of 30 mL/min or below (i.e. severe renal insufficiency). LSORETIC should not be administered to patients with a creatinine clearance < 30 mL/min and titration of the individual components has shown the need for the doses present in LSORETIC. In some patients with bilateral renal artery stenosis or stenosis of the artery to a solitary kidney, who have received ACE inhibitor treatment, increases in blood urea and serum creatinine, which may be reversible upon discontinuation of therapy, have been seen. This is especially likely to occur in patients with renal insufficiency.
Some hypertensive patients with no apparent pre-existing renal disease have developed increases in blood urea and serum creatinine, when lisinopril has been given concomitantly with a diuretic. This is more likely to occur in patients with pre-existing renal impairment. Dosage reduction and/or discontinuation of the diuretic and/or lisinopril may be required. LSORETIC is contraindicated in severe renal impairment (<30 mL/min) (see section 4.3).

The concomitant use of ACE inhibitors such as LSORETIC and fluoroquinolones, may precipitate acute kidney injury in patients, especially those with moderate to severe renal impairment (creatinine < 30 mL/min) and in elderly patients (see sections 4.3 and 4.5). Renal function should be assessed before initiating treatment with concomitant use of ACE-inhibitors and fluoroquinolones.

Prior diuretic therapy

Previous diuretic therapy should be discontinued for 2 - 3 days prior to initiation with LSORETIC. If this is not possible, treatment should be started with lisinopril alone, in a 5 mg dose.

Anaphylactoid reactions related to low-density lipoprotein (LDL) apheresis

Patients treated with ACE inhibitors such as in LSORETIC during low-density lipoprotein (LDL) apheresis with dextran sulphate have shown life threatening anaphylactic reactions.

These symptoms could be avoided by temporary discontinuation of the treatment with ACE inhibitors before both apheresis.

Hepatic disease

Caution should be exercised when hydrochlorothiazide is used in patients with hepatic impairment or progressive liver disease, as minor alterations of fluid and electrolyte balance may precipitate hepatic coma in these patients. LSORETIC is contraindicated in severe hepatic impairment (see section 4.3).

Patients receiving LSORETIC, who develop jaundice or marked elevations of hepatic enzymes should discontinue LSORETIC and receive appropriate medical follow-up.

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. Photosensitising actions of HCTZ could act as a possible mechanism for this increased risk.
Patients taking LSORETIC 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 preventative 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 minimise the risk of skin cancer. Suspicious skin lesions should be promptly examined potentially including histological examinations of biopsies. LSORETIC should not be used by patients who have had previous and/or current basal cell carcinoma and/or squamous cell carcinoma of the skin and/or lip (see section 4.3). The use of HCTZ may also need to be reconsidered in patients who have experienced previous NMSC.

Surgeon/anaesthesia

In patients undergoing major surgery or during anaesthesia with medicines that produce hypotension, lisinopril may block angiotensin II formation secondary to compensatory renin release. Should hypotension occur, and it is considered to be due to this mechanism, the hypotension can be corrected by volume expansion.

Metabolic and endocrine effects

ACE inhibitors, such as lisinopril, and hydrochlorothiazide therapy may impair glucose tolerance. Dosage adjustment of antidiabetic medicines, including insulin, may be required. Increased cholesterol and triglyceride levels may be a result of hydrochlorothiazide diuretic therapy. Hydrochlorothiazide may precipitate hyperuricaemia and gout in certain patients. Due to the increase in urinary uric acid caused by lisinopril, hyperuricaemia may be attenuated by lisinopril which contains both components.

Hypotension and electrolyte/fluid imbalance

Symptomatic hypotension has been seen in uncomplicated hypertensive patients, but is more likely to occur if the patient has been volume-depleted, e.g. by diuretic therapy, dietary salt restriction, dialysis, diarrhoea or vomiting, or has severe renin-dependent hypertension (see sections 4.4 and 4.5).

Determination of serum electrolytes should be performed at appropriate intervals in such patients. Initiation of treatment and dose adjustment should be monitored under close medical supervision in patients with an increased risk of symptomatic hypotension. Particular consideration applies to patients with ischaemic heart or cerebrovascular disease as an excessive decrease in blood pressure could result in a myocardial infarction or cerebrovascular accident.
If hypotension occurs, the patient should be placed in the supine position and, if necessary, should receive an intravenous infusion of 0.9 % normal saline. A transient hypotensive response does not warrant discontinuation of further doses.

Following restoration of effective blood volume and pressure, therapy may be reduced dosage may be reintroduced, or alternatively either of the individual components may be used separately. In some patients with heart failure who have normal or low blood pressure, additional lowering of systemic blood pressure may occur with LSORETIC. This effect is anticipated and is not usually a reason to discontinue treatment. If hypotension becomes symptomatic, a reduction of dose or discontinuation of LSORETIC may be necessary.

Periodic electrolyte imbalance

Periodic determination of serum electrolytes should be performed at appropriate intervals.
Hydrochlorothiazide can cause fluid or electrolyte imbalance (hypokalaemia, hyponatraemia, and hypochloreaemic alkalosis). Warning signs of fluid or electrolyte imbalance are dryness of mouth, thirst, weakness, lethargy, drowsiness, muscle pain or cramps, muscular fatigue, hypotension, oliguria, tachycardia, and gastrointestinal disturbances such as nausea or vomiting. Distal renal tubular acidosis may occur in osteoporotic patients in hot weather. Children and the elderly are particularly susceptible. Hypokalaemia has been shown to increase the urinary excretions of magnesium, which may result in hypomagnesaemia.
Decreased urinary calcium excretion caused by hydrochlorothiazide may result in intermittent and a slightly raised serum calcium concentration. Should marked hypercalcaemia occur, it may be evidence of underlying hyperparathyroidism. LSORETIC therapy should be discontinued before carrying out tests for parathyroid function (see section 4.5).

Hyperkalaemia
Elevations in serum potassium have been observed in some patients treated with ACE inhibitors, including lisinopril as in LSORETIC. The concomitant use of potassium sparing diuretics is contraindicated (see section 4.3). Patients at risk of developing hyperkalaemia include those with renal insufficiency, diabetes mellitus, or those using concomitant potassium supplements or potassium-containing salt substitutes, or those patients taking other medicines associated with increases in serum potassium (e.g. heparin).
If concomitant use of the above-mentioned medicines is deemed appropriate, an increased monitoring of serum potassium is recommended (see section 4.5).

Hypersensitivity/angioedema

Angioedema of the face, extremities, lips, tongue, glottis and/or larynx has been reported in patients treated with angiotensin converting enzyme inhibitors, including lisinopril. In such cases LSORETIC should be discontinued immediately and appropriate measures should be instituted to ensure complete resolution of symptoms prior to dismissing the patient. In instances where swelling has been confined only to the face and lips, the condition may resolve without treatment, although antihistamines have been useful in relieving symptoms. Even in those instances where swelling of only the tongue is involved, without respiratory distress, patients may require prolonged observation since treatment with antihistamines and corticosteroids may not be sufficient. Angioedema associated with laryngeal oedema may be fatal. Where there is involvement of the tongue, glottis or larynx, helix to cause airway obstruction, appropriate emergency therapy should be administered promptly. This may include the administration of adrenaline (epinephrine) and/or maintenance of a patent airway. The patient should be under close medical supervision until complete and sustained resolution of symptoms has occurred. These patients should never receive any ACE-inhibitor again.

Patients with a history of angioedema unrelated to ACE-inhibitor therapy may be at increased risk of angioedema whilst receiving an ACE-inhibitor as in LSORETIC (see section 4.3).

In patients receiving hydrochlorothiazide as in LSORETIC, sensitivity reactions may occur with or without a history of allergy or bronchial asthma.

Due to the increased risk of angioedema, concomitant use of LSORETIC with sacubitril/valsartan is contraindicated. Sacubitril/valsartan treatment must not be initiated earlier than 36 hours after the last dose of LSORETIC. LSORETIC therapy must not be initiated earlier than 36 hours after the last dose of sacubitril/valsartan (see sections 4.3 and 4.5).

Concomitant use of LSORETIC with raccadotril, mammalian target of rapamycin (mTOR) inhibitors (e.g. sirolimus, everolimus, temsirolimus) and vildagliptin may lead to an increased risk of angioedema (e.g. swelling of the airways or tongue, with or without respiratory impairment) (see section 4.5). Caution should be used when starting raccadotril, mTOR inhibitors (e.g. sirolimus, everolimus, temsirolimus) and vildagliptin in a patient already taking LSORETIC.

Systemic lupus erythematosus

Exacerbation or activation of systemic lupus erythematosus has been reported with the use of hydrochlorothiazide.

Desensitisation

Patients receiving ACE-inhibitors, such as in LSORETIC, during desensitisation therapy (e.g. hymenoptera venom) have sustained anaphylactoid reactions. These reactions may be avoided when LSORETIC is temporarily withheld but may reappear upon inadvertent re-challenge.

Neutropenia/agranulocytosis

Neutropenia/agranulocytosis, thrombocytopenia and anaemia have been reported for patients receiving ACE inhibitors as in LSORETIC. In patients with normal renal function and no other complicating factors neutropenia occurs less frequently. Neutropenia and agranulocytosis are reversible after discontinuation of the ACE inhibitor. Lisinopril, as in LSORETIC, should be used with extreme caution in patients with collagen vascular disease, immunosuppressant therapy, treatment with allopurinol or procainamide, or a combination of these complicating factors, especially if there is pre-existing impaired renal function. Some of these patients developed serious infections, which in a few instances did not respond to intensive antibiotic therapy. If lisinopril is used in such patients, periodic monitoring of white blood cell counts is advised and patients should be instructed to report any sign of infection.

Cough

An non-productive, persistent cough has been reported with the use of ACE inhibitors including lisinopril. The cough may usually resolve after discontinuation of therapy. ACE inhibitor-induced cough should be considered as part of the differential diagnosis of cough.

Lithium

The combination of ACE inhibitors and lithium is contraindicated (see sections 4.3 and 4.5).

Anti-doping test

The hydrochlorothiazide contained in LSORETIC could produce a positive analytic result in an anti-doping test.

Photosensitivity

Cases of photosensitivity reactions have been reported with hydrochlorothiazide (see section 4.8). If photosensitivity reaction occurs during treatment, it is recommended to stop the treatment. If a re-administration of LSORETIC is deemed necessary, it is recommended to protect exposed areas from the sun or artificial UVA.

Porphyria

Safety of hydrochlorothiazide in porphyria has not been established (see section 4.3).

Acute angle-closure glaucoma

Hydrochlorothiazide, a sulphonamide, as contained in LSORETIC has an associated with an idiosyncratic reaction, resulting in acute transient myopia and acute angle-closure glaucoma. Symptoms include acute onset of decreased visual acuity or ocular pain and typically occur within hours to weeks of LSORETIC initiation.
Untreated acute angle-closure glaucoma can lead to permanent vision loss. Primarily, treatment with hydrochlorothiazide, as in LSORETIC, must be discontinued as rapidly as possible. Prompt medical or surgical treatment may need to be considered if the intraocular pressure remains uncontrolled.
Risk factors for developing acute angle-closure glaucoma may include a history of sulphonamide or penicillin allergy (see section 4.8).

No factors for developing acute angle-closure glaucoma may include a history of sulphonamide or penicillin allergy (see section 4.8).

Patient populations

Ethnic groups

LSORETIC causes a higher rate of angioedema in black patients than in non-black patients. Lisinopril may be less effective in lowering blood pressure in black patients than in non-black patients, possibly because of a higher prevalence of low-renin states in the black hypertensive population.

Information on excipients of LSORETIC

LSORETIC contains less than 1 mmol (0.023 g) sodium per tablet, that is to say essentially 'sodium free'.

Paediatric population

Safety and efficacy have not yet been established in children.

4.5 Interaction with other medicines and other forms of interaction

- dual blockade of the renin-angiotensin-aldosterone system by combining lisinopril with renin inhibitors is contraindicated since there is an increased risk of hypotension, hyperkalaemia and changes in renal function. The combination of LSORETIC with renin inhibitors is contraindicated (see section 4.3)
- increases in serum lithium concentrations and toxicity have been reported during concomitant administration of lithium with angiotensin converting enzyme inhibitors. The combination of LSORETIC with lithium is contraindicated (see sections 4.3 and 4.4)
- concomitant use of ACE inhibitors such as LSORETIC with fluoroquinolones (e.g. ciprofloxacin, moxifloxacin and levofloxacin) may precipitate acute kidney injury (see sections 4.3 and 4.4)
- concomitant use of LSORETIC with sacubitril/valsartan is contraindicated as this increases the risk of angioedema (see section 4.3 and 4.4)
- concomitant use of LSORETIC with raccadotril, mTOR inhibitors (e.g. sirolimus, everolimus, temsirolimus) and vildagliptin may lead to an increased risk of angioedema (see section 4.4)
- concomitant treatment with tissue plasminogen activators may increase the risk of angioedema
- the decrease in potassium caused by hydrochlorothiazide diuretics is usually attenuated by the effect of lisinopril. The use of potassium supplements, potassium-sparing agents or potassium-containing salt substitutes, especially in patients with impaired renal function, may result in a significant increase in serum potassium (see section 4.4)
- because of the risk of hypokalaemia the concomitant administration of hydrochlorothiazide and medicines that induce bradycardia, e.g. some antiarrhythmics, some anticholinergics and other medicines known to induce bradycardia, should be used with caution
- concomitant use of certain anaesthetic medicines, tricyclic antidepressants and anticholinergics with ACE inhibitors, as in LSORETIC, may result in the further lowering of blood pressure
- diuretics and other hypertensive medicines may increase the hypotensive effects

Chronic administration of nonsteroidal anti-inflammatory drugs (NSAIDs) (selective cyclooxygenase-2 inhibitors, acetylsalicylic acid (aspirin) and non-selective NSAIDs) may reduce the antihypertensive and diuretic effect of ACE inhibitors and hydrochlorothiazide, as in LSORETIC. NSAIDs and ACE inhibitors may exert an additive effect on the increase in serum potassium and may result in a deterioration of renal function. These effects may be reversible. Acute renal failure may occur, especially in patients with compromised renal function such as the elderly or dehydrated.

Intrifred reactions (symptoms of vasodilation including flushing, nausea, dizziness and hypotension, which can be very severe) following Lisinopril gold (for example, sodium aurothiomale) have been reported more frequently in patients receiving LSORETIC therapy

symptomatics may antagonise the antihypertensive effect of ACE inhibitors such as LSORETIC

epidemiological studies indicate that concomitant administration of ACE inhibitors, as in LSORETIC, and antidiabetic medicines (insulin, oral hypoglycaemic agents) may cause an increased blood glucose lowering effect with risk of hypoglycaemia. This phenomenon appears to be more likely during the first weeks of combination treatment and in patients with renal impairment

concomitant use of hydrochlorothiazide and corticosteroids, or adrenocorticotrophic hormone (ACTH) may intensify electrolyte depletion and hypokalaemia

increased serum calcium levels due to decreased excretion may occur when administered concurrently with hydrochlorothiazide, as in LSORETIC. In cases where calcium or vitamin D must be prescribed, serum calcium levels should be monitored and the dose accordingly adjusted

hydrochlorothiazide may decrease response to pressor agents. This decrease in response is not sufficient to preclude the use of pressor amine.

The effect of non-depolarising muscle relaxants (e.g. tubocurarine chloride) may be potentiated by hydrochlorothiazide, as in LSORETIC

concomitant administration of ACE inhibitors and hydrochlorothiazide, as in LSORETIC, with trimethoprim increases the risk of hyperkalaemia

hydrochlorothiazide-induced hypokalaemia can increase the risk of arrhythmia-induced dysrhythmia

concomitant administration of LSORETIC and allopurinol increases the risk of renal damage and can lead to an increased risk of leukopenia

concomitant use of LSORETIC with lisinopril increases the risk of renal damage and hyperkalaemia as well as increase the risk of hyperuricaemia and gout-type complications

concomitant administration of LSORETIC and losartan increases the risk of hyperkalaemia

erythrocytes, immunosuppressants, procainamide – concomitant administration of LSORETIC can lead to increased risk of leukopenia

alcohol, barbiturates or narcotics: potentiation of orthostatic hypotension may occur

hydrochlorothiazide may intensify electrolyte imbalances, particularly hyperkalaemia during concomitant use of amphotericin B (parenteral), carbamazepine, corticosteroids, corticotropin (ACTH) or stimulant laxatives

concomitant use of hydrochlorothiazide with digoxin increases the risk of digitalis toxicity associated with hydrochlorothiazide-induced hypokalaemia

cholestyramine and colestipol may delay or reduce absorption of hydrochlorothiazide.

Therefore, LSORETIC should be taken at least 1 hour before or 4 - 8 hours after intake of these medicines

thiazides may increase the risk of adverse effects caused by amantadine.

4.6 Fertility, pregnancy and lactation

Pregnancy

LSORETIC is contraindicated in pregnancy and lactation (see section 4.3). LSORETIC can cause foetal morbidity and death. LSORETIC passes through the placenta and can cause disturbance in foetal blood pressure regulatory mechanisms. Oligohydramnios as well as hypotension, oliguria and anuria in new-borns, have been reported after administration of LSORETIC in the second and third trimester. Cases of defective skull ossification have been observed. Prematurity and low birth mass can occur. In addition, use of LSORETIC during the first trimester of pregnancy has been associated with an increased risk of birth defects, in particular of the cardiovascular and the central nervous system (see sections 4.3 and 4.4).

Breastfeeding

If it is not known whether lisinopril is distributed into human breast milk, Hydrochlorothiazide does appear in human milk.
Because of the potential for adverse effects on the infant, mothers on LSORETIC should not breastfeed their infants (see section 4.8).

Fertility

There is no fertility data with LSORETIC.

4.7 Effects on ability to drive and use machines

LSORETIC may have a mild to moderate influence on the ability to drive and use machines. Especially at the start of the treatment or when the dose is modified, and also when used in combination with alcohol, but these effects depend on the individual's susceptibility.
LSORETIC can cause side effects such as dizziness or lightheadedness.
During LSORETIC administration, patients should be cautioned about re-engaging in activities requiring rapid and precise responses such as driving a vehicle or operating machinery.

4.8 Undesirable effects

a. Summary of the safety profile

The commonly reported adverse effects with the lisinopril/hydrochlorothiazide combination are cough, fatigue, dizziness, hypotension, including orthostatic hypotension and headache.

Less common were diarrhoea, nausea, vomiting, dry mouth, rash, gout, palpitations, chest discomfort, muscle cramps and weakness, paraesthesia, asthma and impotence.

Adverse events reported with the individual components, lisinopril and hydrochlorothiazide may be potential adverse effects with LSORETIC. Adverse effects of the individual components are detailed below.

b. Tabulated list of adverse reactions

LSORETIC – Post-marketing

Metabolism and nutrition disorders	Less frequent	Hyperuricaemia, hypokalaemia, hyperuricaemia, hyperkalaemia, gout
Psychiatric disorders	Less frequent	Depressive symptoms
Nervous system disorders	Frequent	Dizziness, headache, paraesthesia
	Less frequent	Olfactory disturbance
Cardiac disorders	Frequent	Orthostatic effects (including hypotension), syncope
	Less frequent	Palpitations
Respiratory, thoracic and mediastinal disorders	Frequent	Cough
Gastrointestinal disorders	Less frequent	Diarrhoea, nausea, vomiting, dry mouth, pancreatitis, intestinal angioedema
Hepatobiliary disorders	Less frequent	Hepatitis – either hepatocellular or cholestatic, jaundice, hepatic failure. Very rarely, it has been reported that in some patients the undesirable development of hepatitis has progressed to hepatic failure. Patients receiving LSORETIC who develop jaundice or marked elevation of hepatic enzymes should discontinue LSORETIC and receive appropriate medical follow-up
Skin and subcutaneous tissue disorders	Frequent	Rash
	Less frequent	Hypersensitivity/angioneurotic oedema: angioneurotic oedema of the face, extremities, lips, tongue, glottis, and/or larynx (see section 4.3 and section 4.4), cutaneous pseudomphoma
	Frequency unknown	A symptom complex has been reported which may include one or more of the following: fever, exanthema, myalgia, arthralgia/arthritis, a positive antinuclear antibodies (ANA), elevated net blood cell sedimentation rate (ESR), eosinophilia and leucocytosis, rash, photosensitivity or other dermatological manifestations may occur.
Musculoskeletal, connective tissue and bone disorders	Frequent	Muscle cramps
	Less frequent	Muscle weakness
Reproductive system and breast disorders	Frequent	Impotence
General disorders and administrative site conditions	Frequent	Fatigue, asthenia
	Less frequent	Chast discomfort
Investigations	Frequent	Increases in blood urea, increases in serum creatinine, increases in liver enzymes, decreases in haemoglobin
	Less frequent	Decreases in haematocrit, increases in serum bilirubin

