

LIALIFE

Frusemide 40mg Tablet

1. Name of the medicinal product

Furosemide 40mg Tablets

2. Qualitative and quantitative composition

Each tablet contains Furosemide 40mg.

For a full list of excipients, see section 6.1.

3. Pharmaceutical form

Tablet

White to off white, flat, uncoated tablets with beveled edges, debossed LIALIFE on one side and Plain on the other side.

4. Clinical particulars

4.1 Therapeutic indications

Furosemide is a potent diuretic with rapid action.

Furosemide tablets are indicated for:

- The treatment of fluid retention associated with heart failure, including left ventricular failure, cirrhosis of the liver and renal disease, including nephrotic syndrome.
- The treatment of mild to moderate hypertension when brisk diuretic response is required. Alone or in combination with other anti-hypertensive agents in the treatment of more severe cases.

4.2 Posology and method of administration

For oral administration.

Adults: The initial adult dose is 40mg daily, reduced to 20mg daily or 40mg on alternative days. In some patients daily doses of 80mg or higher (given in divided doses) may be required.

Elderly: Caution is advised as furosemide is excreted more slowly in the elderly. Treatment should be started with 20mg and titrated upwards as required (see section 4.4).

Children: Contra-indicated (see section 4.3)

4.3 Contraindications

- Hypersensitivity to furosemide, amiloride, sulphonamides or sulphonamide derivatives, and/or any of the excipients of the product.
- Hypovolaemia and dehydration (with or without accompanying hypotension) (see section 4.4)
- Severe hypokalaemia: severe hyponatraemia (see section 4.4).
- Comatose or pre-comatose states associated with hepatic cirrhosis (see section 4.4).
- Anuria or renal failure with anuria not responding to furosemide, renal failure as a result of poisoning by nephrotoxic or hepatotoxic agents or renal failure associated with hepatic coma
- Impaired renal function with a creatinine clearance below 30ml/min per 1.73 m² body surface area (see section 4.4).
- Addison's disease (see section 4.4).
- Children and adolescents under 18 years of age (safety in this age group has not yet been established).
- Digitalis intoxication (see section 4.5).

- Concomitant potassium supplements or potassium sparing diuretics (see section 4.5).
- Porphyria
- Breast-feeding women (see section 4.6).

4.4 Special warnings and precautions for use

Conditions requiring correction before furosemide is started (see also section 4.3)

- Hypotension.
- Hypovolaemia.
- Severe electrolyte disturbances – particularly hypokalaemia, hyponatraemia and acid-base disturbances.

Furosemide is not recommended

- In patients at high risk for radiocontrast nephropathy - it should not be used for diuresis as part of the preventative measures against radiocontrast-induced nephropathy.
- In patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or glucose-galactose malabsorption.

Particular caution and/or dose reduction required:

- elderly patients (lower initial dose as particularly susceptible to side-effects - see section 4.2)
- difficulty with micturition including prostatic hypertrophy (increased risk of urinary retention: consider lower dose). Closely monitor patients with partial occlusion of the urinary tract
- diabetes mellitus (latent diabetes may become overt: insulin requirements in established diabetes may increase: stop furosemide before a glucose tolerance test)
- pregnancy (see section 4.6)
- gout (furosemide may raise uric acid levels/precipitate gout)
- patients with hepatorenal syndrome
- impaired hepatic function (see section 4.3 and below – monitoring required)
- impaired renal function (see section 4.3 and below – monitoring required)
- adrenal disease (see section 4.3 – contraindication in Addison's disease)
- hypoproteinaemia e.g. nephrotic syndrome (effect of furosemide may be impaired and its ototoxicity potentiated - cautious dose titration required).
- acute hypercalcaemia (dehydration results from vomiting and diuresis - correct before giving furosemide). Treatment of hypercalcaemia with a high dose of furosemide results in fluid and electrolyte depletion - meticulous fluid replacement and correction of electrolyte required.
- Patients who are at risk from a pronounced fall in blood pressure
- premature infants (possible development nephrocalcinosis/nephrolithiasis; renal function must be monitored and renal ultrasonography performed).
- Symptomatic hypotension leading to dizziness, fainting or loss of consciousness can occur in patients treated with furosemide, particularly in the elderly, patients on other medications which can cause hypotension and patients with other medical conditions that are risks for hypotension

Avoidance with other medicines (see also section 4.5 for other interactions)

- concurrent NSAIDs should be avoided – if not possible diuretic effect of furosemide may be attenuated
- ACE-inhibitors & Angiotensin II receptor antagonists – severe hypotension may occur – dose of furosemide should be reduced/stopped (3 days) before starting or increasing the dose of these

Laboratory monitoring requirements:

- Serum sodium

Particularly in the elderly or in patients liable to electrolyte deficiency

- Serum potassium

The possibility of hypokalaemia should be taken into account, in particular in patients with cirrhosis of the liver, those receiving concomitant treatment with corticosteroids, those with an unbalanced diet and those who abuse laxatives. Regular monitoring of the potassium, and if necessary treatment with a potassium supplement, is recommended in all cases, but is essential at higher doses and in patients with impaired renal function. It is especially important in the event of concomitant treatment with digoxin, as potassium deficiency can trigger or exacerbate the symptoms of digitalis intoxication (see section 4.5). A potassium-rich diet is recommended during long-term use.

Frequent checks of the serum potassium are necessary in patients with impaired renal function and creatinine clearance below 60ml/min per 1.73m² body surface area as well as in cases where furosemide is taken in combination with certain other drugs which may lead to an increase in potassium levels (see section 4.5 & refer to section 4.8 for details of electrolyte and metabolic abnormalities)

- Renal function

Frequent BUN in first few months of treatment, periodically thereafter. Long-term/high-dose BUN should regularly be measured. Marked diuresis can cause reversible impairment of kidney function in patients with renal dysfunction. Adequate fluid intake is necessary in such patients. Serum creatinine and urea levels tend to rise during treatment

- Glucose

Adverse effect on carbohydrate metabolism - exacerbation of existing carbohydrate intolerance or diabetes mellitus. Regular monitoring of blood glucose levels is desirable.

- Other electrolytes

Patients with hepatic failure/alcoholic cirrhosis are particularly at risk of hypomagnesia (as well as hypokalaemia). During long-term therapy (especially at high doses) magnesium, calcium, chloride, bicarbonate and uric acid should be regularly measured.

Clinical monitoring requirements (see also section 4.8):

Regular monitoring for

- blood dyscrasias. If these occur, stop furosemide immediately
- liver damage
- idiosyncratic reactions

Other alterations in lab values

- Serum cholesterol and triglycerides may rise but usually return to normal within 6 months of starting furosemide

Concomitant use with risperidone

In risperidone placebo-controlled trials in elderly patients with dementia, a higher incidence of mortality was observed in patients treated with furosemide plus risperidone (7.3%; mean age 89 years, range 75-97 years) when compared to patients treated with risperidone alone (3.1%; mean age 84 years, range 70-96 years) or furosemide alone (4.1%; mean age 80 years, range 67-90 years). Concomitant use of risperidone with other diuretics (mainly thiazide diuretics used in low dose) was not associated with similar findings.

No pathophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed. Nevertheless, caution should be exercised and the risks and benefits of this combination or co-treatment with other potent diuretics should be considered prior to the decision to use. There was no increased incidence of mortality among patients taking other diuretics as concomitant treatment with risperidone. Irrespective of treatment, dehydration was an overall risk factor for mortality and should therefore be avoided in elderly patients with dementia (see section 4.3 Contraindications).

4.5 Interaction with other medicinal products and other forms of interaction

General- The dosage of concurrently administered cardiac glycosides, diuretics, anti-hypertensive agents, or other drugs with blood-pressure-lowering potential may require adjustment as a more pronounced fall in blood pressure must be anticipated if given concomitantly with furosemide.

The toxic effects of nephrotoxic drugs may be increased by concomitant administration of potent diuretics such as furosemide.

Some electrolyte disturbances (e.g. hypokalaemia, hypomagnesaemia) may increase the toxicity of certain other drugs (e.g. digitalis preparations and drugs inducing QT interval prolongation syndrome).

Antihypertensives – enhanced hypotensive effect possible with all types. Concurrent use with ACE inhibitors or Angiotensin II receptor antagonists can result in marked falls in blood pressure, furosemide should be stopped or the dose reduced before starting an ACE-inhibitor or Angiotensin II receptor antagonists (see section 4.4)

Antipsychotics – furosemide-induced hypokalaemia increases the risk of cardiac toxicity. Avoid concurrent use with pimozide. Increased risk of ventricular arrhythmias with amisulpride or sertindole. Enhanced hypotensive effect with phenothiazines.

When administering risperidone, caution should be exercised and the risks and benefits of the combination or co-treatment with furosemide or with other potent diuretics should be considered prior to the decision to use. See section 4.4 Special warnings and precautions for use regarding increased mortality in elderly patients with dementia concomitantly receiving risperidone.

Anti-arrhythmics (including amiodarone, disopyramide, flecainide and sotalol) - risk of cardiac toxicity (because of furosemide-induced hypokalaemia). The effects of lidocaine, tocainide or mexiletine may be antagonised by furosemide.

Cardiac glycosides – hypokalaemia and electrolyte disturbances (including hypomagnesaemia) increase the risk of cardiac toxicity.

Drugs that prolong Q-T interval – increased risk of toxicity with furosemide-induced electrolyte disturbances

Vasodilators – enhanced hypotensive effect with moxislyte (thymoxamine) or hydralazine

Other diuretics – profound diuresis possible when furosemide given with metolazone. Increased risk of hypokalaemia with thiazides. Contraindicated with potassium sparing diuretics (eg Amiloride spironolactone) - increased risk of hyperkalaemia (see section 4.3)

Renin inhibitors – aliskiren reduces plasma concentrations of furosemide

Nitrates – enhanced hypotensive effect

Lithium - In common with other diuretics, serum lithium levels may be increased when lithium is given concomitantly with furosemide, resulting in increased lithium toxicity, including increased risk of cardiotoxic and neurotoxic effects of lithium. Therefore, it is recommended that lithium levels are carefully monitored and where necessary the lithium dosage is adjusted in patients receiving this combination.

Chelating agents – sucralfate may decrease the gastro-intestinal absorption of furosemide – the 2 drugs should be taken at least 2 hours apart

NSAIDs – increased risk of nephrotoxicity. Indometacin and ketorolac may antagonise the effects of furosemide (avoid if possible see section 4.4)

Salicylates – effects may be potentiated by furosemide. Salicylic toxicity may be increased by furosemide

Antibiotics – increased risk of ototoxicity with aminoglycosides, polymyxins or vancomycin - only use concurrently if compelling reasons. Increased risk of nephrotoxicity with aminoglycosides or cefaloridine. Furosemide can decrease vancomycin serum levels after cardiac surgery. Increased risk of hyponatraemia with trimethoprim. Impairment of renal function may develop in patients receiving concurrent treatment with furosemide and high doses of certain cephalosporins.

Antidepressants – enhanced hypotensive effect with MAOIs. Increased risk of postural hypotension with TCAs (tricyclic antidepressants). Increased risk of hypokalaemia with reboxetine

Antidiabetics – hypoglycaemic effects antagonised by furosemide

Antiepileptics – increased risk of hyponatraemia with carbamazepine. Diuretic effect reduced by phenytoin.

Antihistamines – hypokalaemia with increased risk of cardiac toxicity

Antifungals – increased risk of hypokalaemia and nephrotoxicity with amphoterecin

Anxiolytics and hypnotics – enhanced hypotensive effect. Chloral or trichlorfos may displace thyroid hormone from binding site.

CNS stimulants (drugs used for ADHD) – hypokalaemia increases the risk of ventricular arrhythmias

Corticosteroids – diuretic effect antagonised (sodium retention) and increased risk of hypokalaemia

Glycyrrizin (contained in liquorice) may increase the risk of developing hypokalaemia.

Carbenoxolone -may increase the risk of developing hypokalaemia

Cytotoxics – increased risk of nephrotoxicity and ototoxicity with platinum compounds/cisplatin. Nephrotoxicity of cisplatin may be enhanced if furosemide is not given in low doses (e.g. 40 mg in patients with normal renal function) and with positive fluid balance when used to achieve forced diuresis during cisplatin treatment.

Anti-metabolites – effects of furosemide may be reduced by methotrexate and furosemide may reduce renal clearance of methotrexate

Potassium salts – contraindicated - increased risk of hyperkalaemia (see section 4.3)

Dopaminergics – enhanced hypotensive effect with levodopa.

Immunomodulators – enhanced hypotensive effect with aldesleukin. Increased risk of hyperkalaemia with ciclosporin and tacrolimus. Increased risk of gouty arthritis with ciclosporin

Muscle relaxants – enhanced hypotensive effect with baclofen or tizanidine. Increased effect of curare-like muscle relaxants

Oestrogens – diuretic effect antagonised

Progestogens (drospiridone) – increased risk of hyperkalaemia

Prostaglandins – enhanced hypotensive effect with alprostadil

Sympathomimetics – increased risk of hypokalaemia with high doses of beta₂ sympathomimetics

Theophylline – enhanced hypotensive effect

Probenecid – effects of furosemide may be reduced by probenecid and furosemide may reduce renal clearance of probenecid.

Anaesthetic agents – general anaesthetic agents may enhance the hypotensive effects of furosemide. The effects of curare may be enhanced by furosemide.

Alcohol – enhanced hypotensive effect

Laxative abuse - increases the risk of potassium loss

Others: Concomitant administration of aminoglutethimide may increase the risk of hyponatraemia.

4.6 Pregnancy and lactation

Pregnancy

There is clinical evidence of safety of the drug in the third trimester of human pregnancy & furosemide has been given after the first trimester of pregnancy for oedema, hypertension and toxemia of pregnancy without causing fetal or newborn adverse effects. However, furosemide crosses the placental barrier and should not be given during pregnancy unless there are compelling medical reasons. It should only be used for the pathological causes of oedema which are not directly or indirectly linked to the pregnancy. The treatment with diuretics of oedema and hypertension caused by pregnancy is undesirable because placental perfusion can be reduced, so, if used, monitoring of fetal growth is required.

Lactation (see section 4.3)

Furosemide is contraindicated as it passes into breast milk and may inhibit lactation.

4.7 Effects on ability to drive and use machines

Reduced mental alertness, dizziness and blurred vision have been reported, particularly at the start of treatment, with dose changes and in combination with alcohol. Patients should be advised that if affected, they should not drive, operate machinery or take part in activities where these effects could put themselves or others at risk.

4.8 Undesirable effects

Undesirable effects can occur with the following frequencies: very common (> 1/10), common (> 1/100, < 1/10), uncommon (> 1/1,000, < 1/100), rare (> 1/10,000, < 1,000) and very rare (< 1/10,000, including isolated reports).

Blood and lymphatic system disorders:

Uncommon:

- thrombocytopenia

Rare:

- Eosinophilia
- Leukopenia
- Bone marrow depression (necessitates withdrawal of treatment). The haemopoietic status should be therefore be regularly monitored.

Very Rare:

- aplastic anaemia or haemolytic anaemia
- agranulocytosis

Nervous system disorders

Rare:

- paraesthesia
- hyperosmolar coma

Not known :

Dizziness, fainting and loss of consciousness (caused by symptomatic hypotension)."

Endocrine disorder

Glucose tolerance may decrease with furosemide. In patients with diabetes mellitus this may lead to a deterioration of metabolic control; latent diabetes mellitus may become manifest. Insulin requirements of diabetic patients may increase.

Eye disorders

Uncommon: visual disturbance

Ear and labyrinth disorders

Hearing disorders and tinnitus, although usually transitory, may occur in rare cases, particularly in patients with renal failure, hypoproteinaemia (e.g. in nephritic syndrome) and/or when intravenous furosemide has been given too rapidly.

Uncommon:

deafness (sometimes irreversible)"

Cardiac disorders

Uncommon: Cardiac arrhythmias

Furosemide may cause a reduction in blood pressure which, if pronounced may cause signs and symptoms such as impairment of concentration and reactions, light headedness, sensations of pressure in the head, headache, dizziness, drowsiness, weakness, disorders of vision, dry mouth, orthostatic intolerance.

Hepatobiliary disorders

In isolated cases, intrahepatic cholestasis, an increase in liver transaminases or acute pancreatitis may develop.

Hepatic encephalopathy in patients with hepatocellular insufficiency may occur (see Section 4.3).

Vascular Disorder:

Rare:

- vasculitis

Skin and subcutaneous tissue disorders

Uncommon:

- Photosensitivity

Rare:

Skin and mucous membrane reactions may occasionally occur, e.g. itching, urticaria, other rashes or bullous lesions, fever, hypersensitivity to light, exsudative erythema multiforme (Lyell's syndrome and Stevens-Johnson syndrome), bullous exanthema, exfoliative dermatitis, purpura, AGEP (acute generalized exanthematous pustulosis) and DRESS (Drug rash with eosinophilia and systemic symptoms).

Not Known:

Acute generalised exanthematous pustulosis (AGEP)

Metabolism and nutrition disorders

As with other diuretics, electrolytes and water balance may be disturbed as a result of diuresis after prolonged therapy. Furosemide leads to increased excretion of sodium and chloride and consequently increase excretion of water. In addition, excretion of other electrolytes (in particular potassium, calcium and magnesium) is increased.

Metabolic acidosis can also occur. The risk of this abnormality increases at higher dosages and is influenced by the underlying disorder (e.g. cirrhosis of the liver, heart failure), concomitant medication (see section 4.5) and diet.

Symptomatic electrolyte disturbances and metabolic alkalosis may develop in the form of a gradually increasing electrolyte deficit or e.g. where higher furosemide doses are administered to patients with normal renal function, acute severe electrolyte losses,

Symptoms of electrolyte imbalance depend on the type of disturbance:

Sodium deficiency can occur; this can manifest itself in the form of confusion, muscle cramps, muscle weakness, loss of appetite, dizziness, drowsiness and vomiting.

Potassium deficiency manifests itself in neuromuscular symptoms (muscular weakness, paralysis), intestinal symptoms (vomiting, constipation, meteorism), renal symptoms (polyuria) or cardiac symptoms. Severe potassium depletion can result in paralytic ileus or confusion, which can result in coma.

Magnesium and calcium deficiency result very rarely in tetany and heart rhythm disturbances.

Serum calcium levels may be reduced; in very rare cases tetany has been observed.

Nephrocalcinosis/Nephrolithiasis has been reported in premature infants.

Serum cholesterol (reduction of serum HDL-cholesterol, elevation of serum LDL-cholesterol) and triglyceride levels may rise during furosemide treatment. During long term therapy they will usually return to normal within six months,

As with other diuretics, treatment with furosemide may lead to transitory increase in blood creatinine and urea levels. Serum levels of uric acid may increase and attacks of gout may occur.

The diuretic action of furosemide may lead to or contribute to hypovolaemia and dehydration, especially in elderly patients. Severe fluid depletion may lead to haemoconcentration with a tendency for thromboses to develop.

General disorders and administration site conditions

Uncommon: Fatigue

Rare:

- Severe anaphylactic or anaphylactoid reactions (e.g. with shock) occur rarely.
- fever
- Malaise

Gastrointestinal disorders

Uncommon: dry mouth, thirst, nausea, bowel motility disturbances, vomiting, diarrhea, constipation.

Gastro-intestinal disorders such as nausea, malaise or gastric upset (vomiting or diarrhoea) and constipation may occur but not usually severe enough to necessitate withdrawal of treatment.

Rare:

Acute Pancreatitis

Renal and urinary disorders

Uncommon:

- serum creatinine and urea levels can be temporarily elevated during treatment with furosemide.

Rare:

- interstitial nephritis, acute renal failure.

Increased urine production, urinary incontinence, can be caused or symptoms can be exacerbated in patients with urinary tract obstruction. Acute urine retention, possibly accompanied by complications, can occur for example in patients with bladder disorders, prostatic hyperplasia or narrowing of the urethra.

Pregnancy, puerperium and perinatal conditions

In premature infants with respiratory distress syndrome, administration of Furosemide Accord Tablets in the initial weeks after birth entails an increased risk of a persistent patent ductus arteriosus.

In premature infants, furosemide can be precipitated as nephrocalcinosis/kidney stones.

Rare complications may include minor psychiatric disturbances.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation 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 Yellow Card Scheme.

Website: www.mhra.gov.uk/yellowcard.

4.9 Overdose

Features

Overdose can cause massive diuresis resulting in dehydration, volume depletion and electrolyte disturbances with consequent hypotension and cardiac toxicity. The clinical picture in acute or chronic overdose depends primarily on the extent and consequences of electrolyte and fluid loss, e.g. hypovolaemia, dehydration, haemoconcentration, cardiac arrhythmias due to excessive diuresis. Symptoms of these disturbances include severe hypotension (progressing to shock), acute renal failure, thrombosis, delirious states, flaccid paralysis, apathy and confusion. High doses have the potential to cause transient deafness and may precipitate gout (disturbed uric acid secretion).

Management

- Benefits of gastric decontamination are uncertain. In patients presenting within 1 hour of ingestion, consider activated charcoal (50g for adults: 1g/kg for children)
- Observe for a minimum of 4 hours - monitor pulse and blood pressure.
- Treat hypotension and dehydration with appropriate IV fluids
- Monitor urinary output and serum electrolytes (including chloride and bicarbonate). Correct electrolyte imbalances. Monitor 12 lead ECG in patients with significant electrolyte disturbances

5. Pharmacological properties

5.1 Pharmacodynamic properties

Pharmacotherapeutic Group: High-ceiling diuretic sulfonamides, loop diuretics;

ATC code: C03CA01

The evidence from many experimental studies suggests that furosemide acts along the entire nephron with the exception of the distal exchange site. The main effect is on the ascending limb of the loop of Henley with a complex effect on renal circulation. Blood-flow is diverted from the juxta-medullary region to the outer cortex.

The principle renal action of furosemide is to inhibit active chloride transport in the thick ascending limb. Re-absorption of sodium, chloride from the nephron is reduced hypotonic or isotonic urine produced.

It has been established that prostaglandin (PG) biosynthesis the renin-angiotensin system are affected by furosemide administration and that furosemide alters the renal permeability of the glomerulus to serum proteins.

5.2 Pharmacokinetic properties

Approximately 65% of the dose is absorbed after oral administration. The plasma half-life is biphasic with a terminal elimination phase of about 1½ hours. Furosemide is up to 99% bound to plasma proteins and is mainly excreted in the urine, largely unchanged, but also excreted in the bile, non-renal elimination being considerably increased in renal failure. Furosemide crosses the placental barrier and is excreted in the milk.

Furosemide is a weak carboxylic acid which exists mainly in the dissociated form in the gastrointestinal tract. Furosemide is rapidly but incompletely absorbed (60-70%) on oral administration and its effect is largely over within 4 hours. The optimal absorption site is the upper duodenum at pH 5.0. Regardless of route of administration 69-97% of activity from a radio-labelled dose is excreted in the first 4 hours after the drug is given. Furosemide is bound to plasma albumin and little biotransformation takes place. Furosemide is mainly eliminated via the kidneys (80-90%); a small fraction of the dose undergoes biliary elimination and 10-15% of the activity can be recovered from the faeces.

In renal/ hepatic impairment

Where liver disease is present, biliary elimination is reduced up to 50%. Renal impairment has little effect on the elimination rate of furosemide, but less than 20% residual renal function increases the elimination time.

The elderly

The elimination of furosemide is delayed in the elderly where a certain degree of renal impairment is present.

New born

A sustained diuretic effect is seen in the newborn, possibly due to immature tubular function.

5.3 Preclinical safety data

No further information available.

6. Pharmaceutical particulars

6.1 List of excipients

Lactose monohydrate

Maize starch

Magnesium Stearate

Sodium bi carbonate

Cross carmellose sodium

Talcum

Arosil

Sodium Starch Glycollate (Type A)

6.2 Incompatibilities

Not applicable

6.3 Shelf life

3 years

6.4 Special precautions for storage

Container pack: Do not store above 25°C. Keep the container tightly closed.

Keep the container in the outer carton.

Alu alu pvc strip Pack of 10 Tablets.

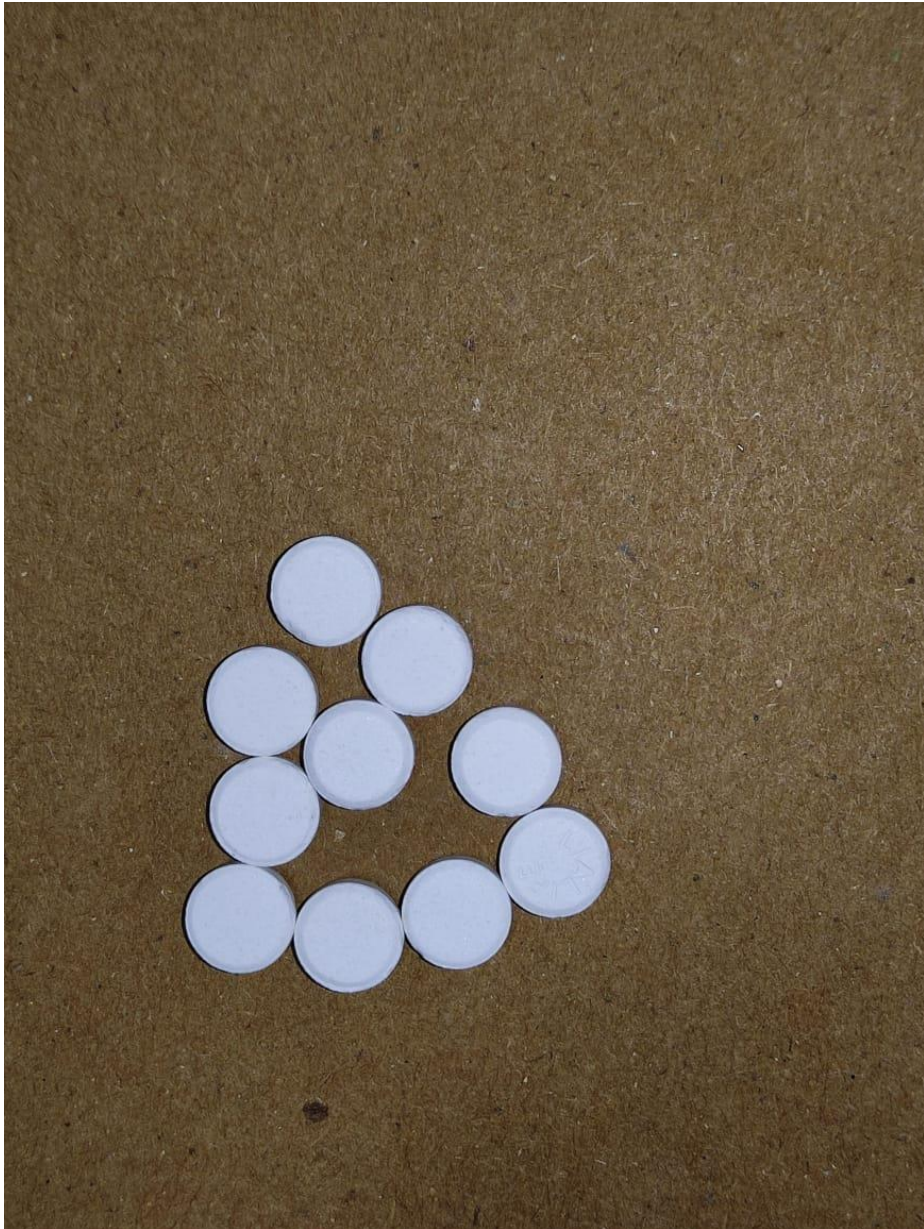
Strip pack: Do not store above 25°C. Store in the original package in order to protect from light

6.6 Special precautions for disposal and other handling

None stated

SOLE AGENT : VALUELIFE PHARMACY CO. LTD.

NAFDAC REG. NO. : B4-0180





<p>Frusumide Tablets B.P. 40mg. Lialife</p> <p>Each uncoated tablet contains: Frusumide B.P. 40mg. Excipients q.s.</p> <p>Dosage: As directed by the Physician. Store in a cool, dry & dark place. Keep all medicines out of reach of children.</p> <p>Mfg. Lic. No. : KD-493 Nafdac Reg. No.: B4-0180</p> <p>Manufactured By Mancare PHARMACEUTICALS PVT. LTD. Plot No. 52, 53, 54, 55, 56, V.M.E. Dossal Village, Gurgaon, Dist. Gurgaon, Haryana, India. E-mail: mancare@vsnl.co.in</p> <p>Wholly Owned Subsidiary of Valulife Pharmacy Co. Ltd. No. 46, 47th Road, High Sension Street, Akola, Akola, Andhra Pradesh, Nigeria</p>	<p>Frusumide Tablets B.P. 40mg. Lialife</p> <p>Each uncoated tablet contains: Frusumide B.P. 40mg. Excipients q.s.</p> <p>Dosage: As directed by the Physician. Store in a cool, dry & dark place. Keep all medicines out of reach of children.</p> <p>Mfg. Lic. No. : KD-493 Nafdac Reg. No.: B4-0180</p> <p>Manufactured By Mancare PHARMACEUTICALS PVT. LTD. Plot No. 52, 53, 54, 55, 56, V.M.E. Dossal Village, Gurgaon, Dist. Gurgaon, Haryana, India. E-mail: mancare@vsnl.co.in</p> <p>Wholly Owned Subsidiary of Valulife Pharmacy Co. Ltd. No. 46, 47th Road, High Sension Street, Akola, Akola, Andhra Pradesh, Nigeria</p>	<p>Frusumide Tablets B.P. 40mg. Lialife</p> <p>Each uncoated tablet contains: Frusumide B.P. 40mg. Excipients q.s.</p> <p>Dosage: As directed by the Physician. Store in a cool, dry & dark place. Keep all medicines out of reach of children.</p> <p>Mfg. Lic. No. : KD-493 Nafdac Reg. No.: B4-0180</p> <p>Manufactured By Mancare PHARMACEUTICALS PVT. LTD. Plot No. 52, 53, 54, 55, 56, V.M.E. Dossal Village, Gurgaon, Dist. Gurgaon, Haryana, India. E-mail: mancare@vsnl.co.in</p> <p>Wholly Owned Subsidiary of Valulife Pharmacy Co. Ltd. No. 46, 47th Road, High Sension Street, Akola, Akola, Andhra Pradesh, Nigeria</p>	<p>Frusumide Tablets B.P. 40mg. Lialife</p> <p>Each uncoated tablet contains: Frusumide B.P. 40mg. Excipients q.s.</p> <p>Dosage: As directed by the Physician. Store in a cool, dry & dark place. Keep all medicines out of reach of children.</p> <p>Mfg. Lic. No. : KD-493 Nafdac Reg. No.: B4-0180</p> <p>Manufactured By Mancare PHARMACEUTICALS PVT. LTD. Plot No. 52, 53, 54, 55, 56, V.M.E. Dossal Village, Gurgaon, Dist. Gurgaon, Haryana, India. E-mail: mancare@vsnl.co.in</p> <p>Wholly Owned Subsidiary of Valulife Pharmacy Co. Ltd. No. 46, 47th Road, High Sension Street, Akola, Akola, Andhra Pradesh, Nigeria</p>
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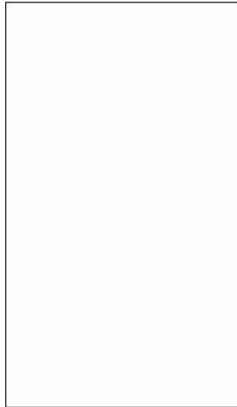
See Agent:
 Valulife Pharmacy Co. Ltd.
 No. 40, Ibe Road, High Tension Street,
 Anambra, Anambra State,
 Nigeria

Manufactured By:
 Mancare
 PHARMACEUTICALS PVT. LTD.
 Plot No. 59, 60, 61, V.M.I.E. Dewal Village,
 Vashi (W), Dist. Thane, Maharashtra, India.
 E-mail: mancarep@piscocam

1890606292129

Nafdac Reg. No.: B4-0180

Lialife
 Frusemide Tablets B.P. 40mg.



Frusemide Tablets B.P. 40mg.


Lialife

250 tablets (25 strips of 10 tablets each)

Warning : To be sold by retail on the prescription of a Registered Medical Practitioner only.

Nafdac Reg. No.: B4-0180



Frusemide Tablets B.P. 40mg.

Lialife



Frusemide Tablets B.P. 40mg.

Lialife

Mfg. Lic. No.: KD-493
 Batch No.:
 Mfg Date:
 Exp Date:

Frusemide B.P. 40mg.
 q.s.
 Excipients

Each uncoated tablet contains:

Dosage: As directed by the Physician.
 Store in a cool, dry & dark place below 30°C.
 Keep all medicines out of reach
 of children.





Frusemide Tablets B.P. 40mg.


Lialife

250 tablets (25 strips of 10 tablets each)

Warning : To be sold by retail on the prescription of a Registered Medical Practitioner only.

Nafdac Reg. No.: B4-0180



For the use of Registered medical Practitioner or a Hospital or a Laboratory only.



Lialife

(Frusemide Tablets B.P. 40mg.)

COMPOSITION

Each uncoated tablet contains:
Frusemide B.P.....40 mg

PROPERTIES

Frusemide inhibits reabsorption of sodium and Chloride mainly in the medullary portion of the ascending limb of the loop of Henle. Excretion of k^+ and ammonia is also increased Plasma renin levels and secondary hyperaldosteronism may result Frusemide reduces BP in hypertensives as well as in normotensives. It reduces pulmonary oedema before diuresis has set in.

INDICATIONS

Treatment of oedema associated with heart failure, hypertension renal insufficiency, chronic-renal insufficiency. It is a Potent diuretic.

DOSAGE

Treatment of hypertension : Adult, 40-80 mg daily, Alone or in conjunction with other antihypertensive.

Treatment of oedema associated with heart failure : **Adult**: initially 20mg daily or 40mg every other day for mild cases, or 40mg once daily adjusted according to response, 80mg or more daily or intermittently as a single or in 2divided doses for up to 600mg daily in severe cases. **Child**: 1-3 mg/kg body weight daily. Max dose: child 40mg daily.

CONTRAINDICATION

Prostatic hyperplasia, hepatic or renal Impairment, gout, diabetes, impaired renalnutrition, Pregnancy and lactation.

SPECIAL PRECAUTION

Analgesics reduce. Natriuretic of frusemide Antagonizes hypoglycemia agents and drugs used for gout, hyperglycemia against and with Antihypertensive agent diazoxide. Antagonizes muscle relaxants.

SIDE EFFECTS

Fluid and electrolyte, imbalance, rashes, photosensitivity, nausea, diarrhoea, blurred vision, dizziness, headache, hypotension, rarely bone marrow depression, hepatic, dysfunction, hyperglycemia, glycos

PRESENTATION

25 strips each strip of 10 tablets.

store in dry, cool & dark place below 30°C.

keep all medicines out of reach of children.

NAFDAC REG.NO.: B4-0180

Mfg. Lic.No. KD-

Manufactured By :

Mancare

PHARMACEUTICALS PVT. LTD.

Plot No. 59, 60, 85, 86, V.M.I.E, Dowai Village,
Vasai (W), Dist. Thane, Maharashtra, India.
E-mail: mancerp@yahoo.co.in



Sole Agent

Valulife Pharmacy Co. Ltd.

No. 46, Ifite Road, High Tension Street,
Arroma, Awka, Anambara state,
Nigeria