HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use FUROSEMIDE INJECTION safely and effectively. See full prescribing information for FUROSEMIDE INJECTION.

FUROSEMIDE INJECTION (furosemide), for intravenous or intramuscular use

Initial U.S. Approval: 1982

--- INDICATIONS AND USAGE---

FUROSEMIDE INJECTION is a loop diuretic indicated for:

- The treatment of edema associated with heart failure, cirrhosis of the liver, and renal disease (1.1)
- Acute pulmonary edema as adjunctive therapy (1.2)

----DOSAGE AND ADMINISTRATION ----

Edema:

- Initial dose is 20 mg to 40 mg once given intramuscularly or intravenously. The intravenous dose should be administered slowly over 1 minute to 2 minutes (2.2)
- If needed, a second dose may be administered 2 hours after the first dose (2.2)

Acute Pulmonary Edema:

- Initial dose is 40 mg injected slowly intravenously over 1 minute to 2 minutes (2.2)
- If needed, a second dose is 80 mg injected intravenously slowly in 1 minute to 2 minutes (2.2)

Pediatric Dosage:

• The initial dose in pediatric patients is 1 mg/kg body weight once given slowly intramuscularly or intravenously. If needed, dosage may be increased by 1 mg/kg not sooner than 2 hours after the previous dose, until the desired diuretic effect has been obtained. Doses greater than 6 mg/kg body weight are not recommended (2.3)

--- DOSAGE FORMS AND STRENGTHS----

Injection: Furosemide Injection is supplied as a sterile, colorless solution as

- 20 mg/2 mL (10 mg/mL) in a single-dose vial (3)
- 40 mg/4 mL (10 mg/mL) in a single-dose vial (3)
- 100 mg/10 mL (10 mg/mL) in a single-dose vial (3)

----- CONTRAINDICATIONS -----

- Anuria (4)
- Hypersensitivity to furosemide (4)

--- WARNINGS AND PRECAUTIONS -----

- Fluid, Electrolyte, and Metabolic Abnormalities: Monitor serum electrolytes, CO₂, BUN, creatinine, glucose, and uric acid (5.1)
- Worsening Renal Function: Monitor for dehydration and azotemia. (5.2)
- <u>Ototoxicity:</u> Avoid rapid injection and higher than recommended doses. (5.3, 7.1)
- <u>Acute Urinary Retention</u>: Monitor patients with symptoms of urinary retention. (5.4)

--- ADVERSE REACTIONS -----

Most common adverse reactions are related to fluid and electrolyte imbalance (6)

To report SUSPECTED ADVERSE REACTIONS, contact Pfizer Inc. at 1-800-438-1985 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

---DRUG INTERACTIONS---

- <u>Aminoglycoside antibiotics</u>: Increased potential ototoxicity of the antibiotics. Avoid combination (7.1)
- Ethacrynic acid: Risk of otoxicity. Avoid combination (7.1)
- Salicylates: Risk of salicylate toxicity (7.1)
- <u>Cisplatin and nephrotoxic drugs</u>: Risk of ototoxicity and nephrotoxicity (7.1)
- Lithium: Risk of lithium toxicity (7.1)
- Renin-angiotensin inhibitors: Increased risk of hypotension and renal failure.(7.1)
- Adrenergic blocking drugs: Risk of potentiation (7.1)
- <u>Drugs undergoing renal tubular secretion</u>: Risk of toxicity potentiation (7.1)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 8/2022

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Edema

Furosemide Injection is indicated in adults and pediatric patients for the treatment of edema associated with heart failure, cirrhosis of the liver, and renal disease, including the nephrotic syndrome.

1.2 Acute Pulmonary Edema

Furosemide Injection is indicated as adjunctive therapy in acute pulmonary edema.

2 DOSAGE AND ADMINISTRATION

2.1 General Considerations

Inspect Furosemide Injection visually for particulate matter and discoloration before administration.

2.2 Recommended Dosage for Adults

Edema

Individualize therapy according to patient response.

The usual initial dose of furosemide is 20 mg to 40 mg given as a single-dose, injected intramuscularly or intravenously. Give the intravenous dose slowly (over 1 minute to 2 minutes). If needed, administer another dose in the same manner 2 hours later or increase the dose. The dose may be raised by 20 mg and administered not sooner than 2 hours after the previous dose until the desired diuretic effect has been obtained. Administer this individually determined single-dose once or twice daily.

If the physician elects to use high-dose parenteral therapy, add the furosemide to either 0.9% Sodium Chloride Injection USP, Lactated Ringer's Injection USP, or Dextrose Injection 5%, USP, after pH has been adjusted to above 5.5, and administer as a controlled intravenous infusion at a rate not greater than 4 mg/min. Furosemide Injection is a buffered alkaline solution with a pH of about 9 and the drug may precipitate at pH values below 7. Care must be taken to ensure that the pH of the prepared infusion solution is in the weakly alkaline to neutral range. Acid solutions, including other parenteral medications (e.g., labetalol, ciprofloxacin, amrinone, milrinone) must not be administered concurrently in the same infusion because they may cause precipitation of the furosemide.

Acute Pulmonary Edema

The usual initial dose of furosemide is 40 mg injected slowly intravenously (over 1 minute to 2 minutes). If a satisfactory response does not occur within 1 hour, increase the dose to 80 mg injected slowly intravenously (over 1 minute to 2 minutes).

2.3 Recommended Dosage for Pediatric Patients

The usual initial dose of Furosemide Injection (intravenously or intramuscularly) in pediatric patients is 1 mg/kg body weight administered slowly (over 1 minute to 2 minutes). If the diuretic response to the initial dose is not satisfactory, dosage may be increased by 1 mg/kg not sooner than 2 hours after the previous dose, until the desired diuretic effect has been obtained. Doses greater than 6 mg/kg body weight are not recommended.

The maximum dose for premature infants should not exceed 1 mg/kg/day [see Use in Specific Populations (8.4)].

3 DOSAGE FORMS AND STRENGTHS

Injection: Furosemide Injection is supplied as a sterile, colorless solution as

- 20 mg/2 mL (10 mg/mL) in a single-dose vial
- 40 mg/4 mL (10 mg/mL) in a single-dose vial
- 100 mg/10 mL (10 mg/mL) in a single-dose vial

4 CONTRAINDICATIONS

- Furosemide Injection is contraindicated in patients with anuria.
- Furosemide Injection is contraindicated in patients with a history of hypersensitivity to furosemide.

5 WARNINGS AND PRECAUTIONS

5.1 Fluid, Electrolyte, and Metabolic Abnormalities

Furosemide may cause fluid, electrolyte, and metabolic abnormalities such as hypovolemia, hypokalemia, azotemia, hyponatremia, hypochloremic alkalosis, hypomagnesemia, hypocalcemia, hyperglycemia, or hyperuricemia, particularly in patients receiving higher doses, patients with inadequate oral electrolyte intake, and in elderly patients. Excessive diuresis may cause dehydration and blood volume reduction with circulatory collapse and possibly vascular thrombosis and embolism, particularly in elderly patients. Serum electrolytes, CO₂, BUN, creatinine, glucose, and uric acid should be monitored frequently during furosemide therapy.

In patients with hepatic cirrhosis and ascites, sudden alterations of fluid and electrolyte balance may precipitate hepatic encephalopathy and coma. Treatment in such patients is best initiated in the hospital with small doses and careful monitoring of the patient's clinical status and electrolyte balance.

5.2 Worsening Renal Function

Furosemide can cause dehydration and azotemia. If increasing azotemia and oliguria occur during treatment of severe progressive renal disease, furosemide should be discontinued [see Clinical Pharmacology (12.3)].

Furosemide use in the first year of life, especially in patients born pre-term, may precipitate nephrocalcinosis/nephrolithiasis. Therefore renal function must be monitored and renal ultrasonography performed in this age group [see Use in Specific Populations (8.4)].

5.3 Ototoxicity

Cases of tinnitus and reversible or irreversible hearing impairment and deafness have been reported. Reports usually indicate that furosemide ototoxicity is associated with rapid injection, severe renal impairment, the use of higher than recommended doses, hypoproteinemia or concomitant therapy with aminoglycoside antibiotics, ethacrynic acid, or other ototoxic drugs. If the physician elects to use high-dose parenteral therapy, controlled intravenous infusion is advisable (for adults, an infusion rate not exceeding 4 mg furosemide per minute has been used) [see Drug Interactions (7.1)].

Hearing loss in neonates, including premature neonates has been associated with the use of Furosemide Injection [see Use in Specific Populations (8.4)].

5.4 Acute Urinary Retention

In patients with severe symptoms of urinary retention (because of bladder emptying disorders, prostatic hyperplasia, urethral narrowing), the administration of furosemide can cause acute urinary retention related to increased production and retention of urine. Thus, these patients require careful monitoring, especially during the initial stages of treatment.

6 ADVERSE REACTIONS

The following adverse reactions are described elsewhere in the labeling:

- Fluid, Electrolyte, and Metabolic Abnormalities [see Warnings and Precautions (5.1)]
- Ototoxicity [see Warnings and Precautions (5.3)]

The following adverse reactions associated with the use of furosemide were identified in clinical studies or postmarketing reports. Because some of these reactions were reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Adverse reactions are categorized below by organ system and listed by decreasing severity.

Gastrointestinal System Reactions: pancreatitis, jaundice (intrahepatic cholestatic jaundice), increased liver enzymes, anorexia, oral and gastric irritation, cramping, diarrhea, constipation, nausea, vomiting.

Systemic Hypersensitivity Reactions: severe anaphylactic or anaphylactoid reactions (e.g., with shock), systemic vasculitis, interstitial nephritis, necrotizing angiitis.

Central Nervous System Reactions: tinnitus and hearing loss, paresthesias, vertigo, dizziness, headache, blurred vision, xanthopsia.

Hematologic Reactions: aplastic anemia, thrombocytopenia, agranulocytosis, hemolytic anemia, leukopenia, anemia, eosinophilia.

Dermatologic-Hypersensitivity Reactions: toxic epidermal necrolysis, Stevens-Johnson Syndrome, erythema multiforme, drug rash with eosinophilia and systemic symptoms, acute generalized exanthematous pustulosis, exfoliative dermatitis, bullous pemphigoid, purpura, photosensitivity, rash.

Cardiovascular Reactions: orthostatic hypotension, increase in cholesterol and triglyceride serum levels.

Other Reactions: glycosuria, muscle spasm, weakness, restlessness, urinary bladder spasm, thrombophlebitis, transient injection site pain following intramuscular injection, fever.

7 DRUG INTERACTIONS

7.1 Effects of Furosemide on Other Drugs

Drug/Substance Class or Name	Drug Interaction Effect	Recommendations
Aminoglycoside antibiotics	Furosemide may increase the ototoxic potential of aminoglycoside antibiotics, especially in the presence of impaired renal function [see	Avoid combination except in life-threatening situations.
Ethacrynic acid	Warnings and Precautions (5.3)]. Possibility of ototoxicity [see Warnings and Precautions (5.3)].	Avoid concomitant use with ethacrynic acid.
Salicylates	May experience salicylate toxicity at lower doses because of competitive renal excretory sites.	Monitor for symptoms of salicylate toxicity.
Cisplatin	There is a risk of ototoxic effects if cisplatin and furosemide are given concomitantly [see Warnings and Precautions (5.3)].	
Cisplatin and nephrotoxic drugs	Nephrotoxicity	Administer furosemide at lower doses and with postitive fluid balance when used to achieve forced diuresis during cisplatin treatment. Monitor renal function.
Paralytic agents	Furosemide has a tendency to antagonize the skeletal muscle relaxing effect of tubocurarine and may potentiate the action of succinylcholine.	Monitor for skeletal muscle effect.
Lithium	Furosemide reduces lithium's renal clearance and add a high-risk of lithium toxicity.	Avoid concomitant use with lithium.
Angiotensin converting enzyme inhibitors or angiotensin II receptor blockers	May lead to severe hypotension and deterioration in renal function, including renal failure.	Monitor for changes in blood pressure and renal function and interrupt or reduce the dosage of furosemide, angiotensin converting enzyme inhibitors, or angiotensin receptor blockers if needed.
Antihypertensive drugs	Furosemide may add to or potentiate the therapeutic effect of other antihypertensive drugs.	Monitor for changes in blood pressure and adjust the dose of other antihypertensive drugs if needed.

Adrenergic blocking drugs or peripheral adrenergic blocking drugs	Potentiation occurs.	Monitor for changes in blood pressure and adjust the dose of adrenergic blocking drugs if needed.
Norepinephrine	Furosemide may decrease arterial responsiveness (vasoconstricting effect) to norepinephrine.	Monitor blood pressure (or mean arterial pressure).
Chloral hydrate	In isolated cases, intravenous administration of furosemide within 24 hours of taking chloral hydrate may lead to flushing, sweating attacks, restlessness, nausea, increase in blood pressure, and tachycardia.	Concomitant use with chloral hydrate is not recommended.
Methotrexate and other drugs undergoing renal tubular secretion	Furosemide may decrease renal elimination of other drugs that undergo tubular secretion. High-dose treatment of furosemide may result in elevated serum levels of these drugs and may potentiate their toxicity.	Monitor serum levels of drugs undergoing renal tubular secretion and adjust the dose if needed.
Cephalosporin	Furosemide can increase the risk of cephalosporin-induced nephrotoxicity even in the setting of minor or transient renal impairment.	Monitor for changes in renal function.
Cyclosporine	Increased risk of gouty arthritis secondary to furosemide-induced hyperuricemia and cyclosporine impairment of renal urate excretion.	Monitor serum urate levels.
Thyroid hormones	High-doses (> 80 mg) of furosemide may inhibit the binding of thyroid hormones to carrier proteins and result in transient increase in free thyroid hormones, followed by an overall decrease in total thyroid hormone levels.	Monitor the total thyroid hormone levels.

7.2 Effects of Other Drugs on Furosemide

Drug/Substance Class or Name	Drug Interaction Effect	Recommendations
Phenytoin	Interferes directly with renal	Monitor diuretic effects of
	action of furosemide.	furosemide and adjust the dose of
		furosemide if needed.
Methotrexate and other drugs	May reduce the effect of	Monitor for enhanced toxicity of
undergoing renal tubular secretion	furosemide. High-dose treatment	furosemide.
	of methotrexate and these other	
	drugs may result in elevated serum	

	levels of furosemide and may	
	potentiate the toxicity of	
	furosemide.	
Indomethacin	Coadministration of indomethacin	Patients receiving both
	may reduce the natriuretic and	indomethacin and furosemide
	antihypertensive effects of	should be observed closely to
	furosemide in some patients by	determine if the desired diuretic
	inhibiting prostaglandin synthesis.	and/or antihypertensive effect of
	Indomethacin may also affect	furosemide is achieved.
	plasma renin levels, aldosterone	
	excretion, and renin profile	
	evaluation.	

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Available data from published observational studies, case reports, and postmarketing reports, from decades of use, have not demonstrated a drug-associated risk of major birth defects, miscarriage, or other adverse maternal or fetal outcomes with furosemide use during pregnancy. Untreated congestive heart failure and cirrhosis of the liver can lead to adverse outcomes for the mother and the fetus (see Clinical Considerations).

In animal reproduction studies, furosemide has been shown to cause unexplained maternal deaths and abortions in rabbits when administered orally during organogenesis at 4 times a human i.v. dose of 80 mg based on body surface area (BSA) and oral bioavailability corrections, presumably secondary to volume depletion (see Data).

The estimated background risk for major birth defects and miscarriage for the indicated populations is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in the clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Clinical Considerations

Disease-Associated Maternal and/or Embryo/Fetal Risk

Pregnant women with congestive heart failure are at increased risk for pre-term birth. Stroke volume and heart rate increase during pregnancy, increasing cardiac output, especially during the first trimester. Clinical classification of heart disease may worsen with pregnancy and lead to maternal death and/or stillbirth. Closely monitor pregnant patients for destabilization of their heart failure.

Pregnant women with symptomatic cirrhosis generally have poor outcomes including hepatic failure, variceal hemorrhage, pre-term delivery, fetal growth restriction and maternal death. Outcomes are worse with coexisting esophageal varices. Pregnant women with cirrhosis of the liver should be carefully monitored and managed accordingly.

Data

Animal Data

The effects of furosemide on embryonic and fetal development and on pregnant dams were studied in mice, rats and rabbits.

Furosemide caused unexplained maternal deaths and abortions in the rabbit at the lowest dose of 25 mg/kg (approximately 4 times a human i.v. dose of 80 mg based on BSA and oral bioavailability corrections). In another study, a dose of 50 mg/kg (approximately 7 times a human i.v. dose of 80 mg based on BSA and oral bioavailability corrections) also caused maternal deaths and abortions when administered to rabbits between Days 12 and 17 of gestation. In a third study, none of the pregnant rabbits survived an oral dose of 100 mg/kg. Data from the above studies indicate fetal lethality that can precede maternal deaths.

The results of the mouse study and one of the three rabbit studies also showed an increased incidence and severity of hydronephrosis (distention of the renal pelvis and, in some cases, of the ureters) in fetuses of treated dams as compared with the incidence of fetuses from the control group.

8.2 Lactation

Risk Summary

The presence of furosemide has been reported in human milk. There are no data on the effects on the breastfed infant or the effects on milk production. Doses of furosemide associated with clinically significant diuresis may impair milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for furosemide and any potential adverse effects on the breastfed infant from furosemide or from the underlying maternal condition.

8.4 Pediatric Use

Published reports indicate that premature infants with post conceptual age (gestational plus postnatal) less than 31 weeks receiving doses exceeding 1 mg/kg/24 hours may develop plasma levels which could be associated with potential toxic effects including ototoxicity [see Warnings and Precautions (5.3)].

Furosamide in the first year of life, especially in patients born pre-term, may precipitate nephrocalcinosis/nephrolithiasis [see Warnings and Precautions (5.2)].

8.5 Geriatric Use

Controlled clinical studies of furosemide did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for the elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal or cardiac function, and of concomitant disease or other drug therapy.

This drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection and it may be useful to monitor renal function [see Clinical Pharmacology (12.3)].

10 OVERDOSAGE

The principal signs and symptoms of overdose with furosemide are dehydration, blood volume reduction, hypotension, electrolyte imbalance, hypokalemia and hypochloremic alkalosis, and are extensions of its diuretic action.

The concentration of furosemide in biological fluids associated with toxicity or death is not known.

Treatment of overdosage is supportive and consists of replacement of excessive fluid and electrolyte losses. Serum electrolytes, carbon dioxide level, and blood pressure should be determined frequently. Adequate drainage must be assured in patients with urinary bladder outlet obstruction (such as prostatic hypertrophy).

Hemodialysis does not accelerate furosemide elimination.

11 DESCRIPTION

Furosemide Injection contains furosemide as the active pharmaceutical ingredient. Furosemide is a loop diuretic which is an anthranilic acid derivative. Furosemide chemical name is 4-chloro-*N*-furfuryl-5-sulfamoylanthranilic acid.

Furosemide is a white to slightly-yellow crystalline powder. It is practically insoluble in water, sparingly soluble in alcohol, freely soluble in dilute alkali solutions and insoluble in dilute acids.

The structural formula is as follows:

Molecular formula: C₁₂H₁₁CIN₂O₅S Molecular weight: 330.74

Furosemide Injection 10 mg/mL is a sterile, non-pyrogenic solution, available in single-dose vials for intravenous and intramuscular injection. Each mL of Furosemide Injection contains: 10 mg of Furosemide, 7.5 mg of Sodium Chloride for isotonicity, 1.34 mg of Sodium Hydroxide, Hydrochloric Acid and Sodium Hydroxide as pH adjusters, in Water for Injection. Furosemide Injection solution pH is between 8.0 and 9.3. It contains no preservative.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Furosemide inhibits primarily the reabsorption of sodium and chloride not only in the proximal and distal tubules but also in the loop of Henle. The high degree of efficacy is largely due to this unique site of action. The action on the distal tubule is independent of any inhibitory effect on carbonic anhydrase and aldosterone.

12.2 Pharmacodynamics

The onset of diuresis following intravenous administration is within 5 minutes and somewhat later after intramuscular administration. The peak effect occurs within the first half hour. The duration of diuretic effect is approximately 2 hours.

12.3 Pharmacokinetics

Distribution

Furosemide is extensively bound to plasma proteins, mainly to albumin.

Plasma concentrations ranging from 1 to 400 mcg/mL are 91 to 99% bound in healthy individuals. The unbound fraction averages 2.3 to 4.1% at therapeutic concentrations.

Elimination

The terminal half-life of furosemide is approximately 2 hours.

Metabolism

Recent evidence suggests that furosemide glucuronide is the only or at least the major biotransformation product of furosemide in man.

Excretion

Significantly more furosemide is excreted in urine following the intravenous injection than after the tablet or oral solution.

Specific Populations

Geriatric Patients

Furosemide binding to albumin may be reduced in elderly patients. Furosemide is predominantly excreted unchanged in the urine. The renal clearance of furosemide after intravenous administration in older healthy male subjects (60 to 70 years of age) is statistically significantly smaller than in younger healthy male subjects (20 to 35 years of age). The initial diuretic effect of furosemide in older subjects is decreased relative to younger subjects [see Use in Specific Populations (8.5)].

Patients with Renal Impairment

One study in six subjects demonstrated that the combination of furosemide and acetylsalicylic acid temporarily reduced creatinine clearance in patients with chronic renal insufficiency. There are case reports of patients who developed increased BUN, serum creatinine and serum potassium levels, and weight gain when furosemide was used in conjunction with NSAIDs.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

Furosemide was tested for carcinogenicity by oral administration in one strain of mice and one strain of rats. A small but significantly increased incidence of mammary gland carcinomas occurred in female mice at a dose approximately 8 times a human i.v. dose of 80 mg based on BSA and oral bioavailability corrections. There were marginal increases in uncommon tumors in male rats at a dose of 15 mg/kg but not at 30 mg/kg.

Mutagenesis

Furosemide was devoid of mutagenic activity in various strains of *Salmonella typhimurium* when tested in the presence or absence of an *in vitro* metabolic activation system, and questionably positive for gene mutation in mouse lymphoma cells in the presence of rat liver S9 at the highest dose tested. Furosemide did not induce sister chromatid exchange in human cells *in vitro*, but other studies on chromosomal aberrations in human cells *in vitro* gave conflicting results. In Chinese hamster cells it induced chromosomal damage but was questionably positive for sister chromatid exchange. Studies on the induction by furosemide of chromosomal aberrations in mice were inconclusive. The urine of rats treated with this drug did not induce gene conversion in *Saccharomyces cerevisiae*.

Impairment of Fertility

Furosemide produced no impairment of fertility in male or female rats, at 100 mg/kg/day (the maximum effective diuretic dose in the rat), approximately 7 times a human i.v. dose of 80 mg based on BSA and oral bioavailability corrections.

16 HOW SUPPLIED/STORAGE AND HANDLING

Store at room temperature 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F). [See USP Controlled Room Temperature.]

Protect from light.

Furosemide Injection is a sterile, colorless solution for injection, available as a single-dose vial that contains 10 mg/mL of furosemide, and is supplied as follows:

Unit of Sale	Presentations	Concentration
NDC 0409-6102-02	Tray of 25 clear glass single-dose	20 mg/2 mL
	vials	(10 mg/mL)
NDC 0409-6102-04	Tray of 25 clear glass single-dose	40 mg/4 mL
	vials	(10 mg/mL)
NDC 0409-6102-10	Tray of 25 clear glass single-dose	100 mg/10 mL
	vials	(10 mg/mL)

Discard unused portion. Do not use if solution is discolored or contains particulate.

17 PATIENT COUNSELING INFORMATION

Fluid, Electrolyte, and Metabolic Abnormalities

Advise patients that they may experience symptoms from excessive fluid and/or electrolyte losses. The postural hypotension that sometimes occurs can usually be managed by getting up slowly. Potassium supplements and/or dietary measures may be needed to control or avoid hypokalemia [see Warnings and Precautions (5.1)].

Advise patients that furosemide may increase blood glucose levels and thereby affect urine glucose tests [see Warnings and Precautions (5.1)].

Photosensitivity

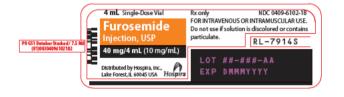
The skin of some patients may be more sensitive to the effects of sunlight while taking furosemide [see Adverse Reactions (6)].

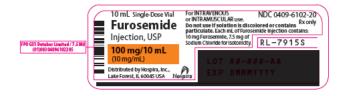
Advise hypertensive patients to avoid medications that may increase blood pressure, including over-the-counter products for appetite suppression and cold symptoms [see Drug Interactions (7.1)].

This product's labeling may have been updated. For the most recent prescribing information, please visit www.pfizer.com.

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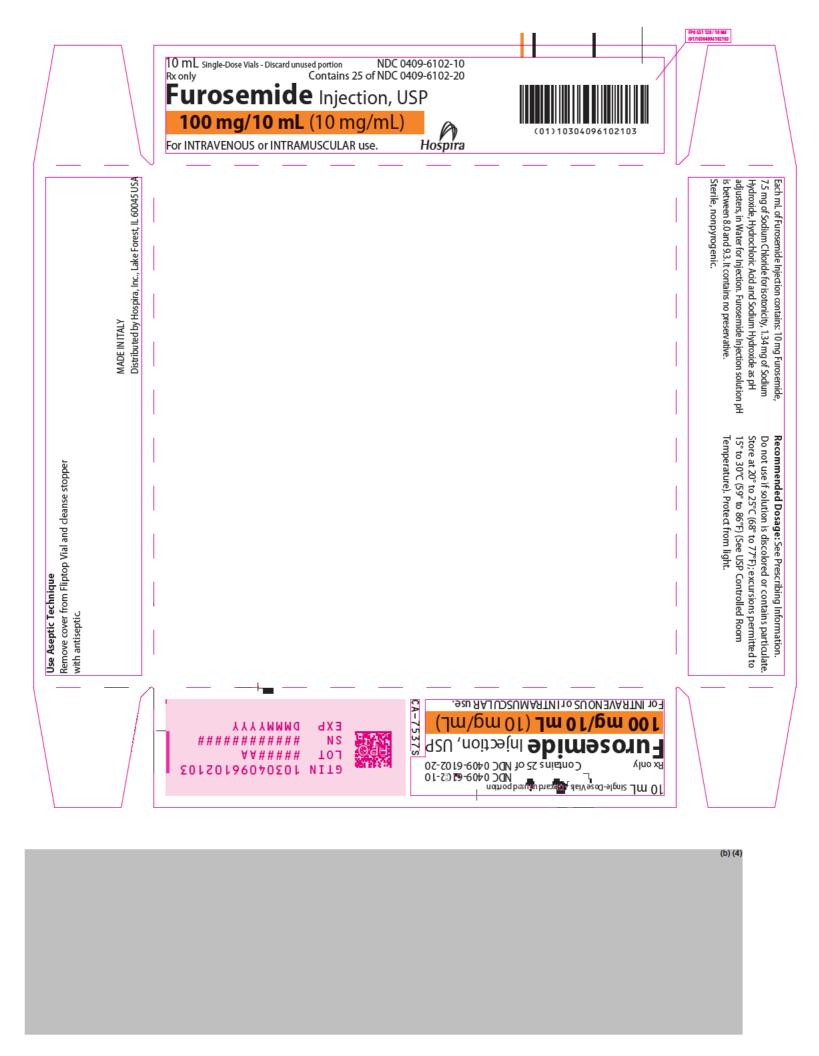
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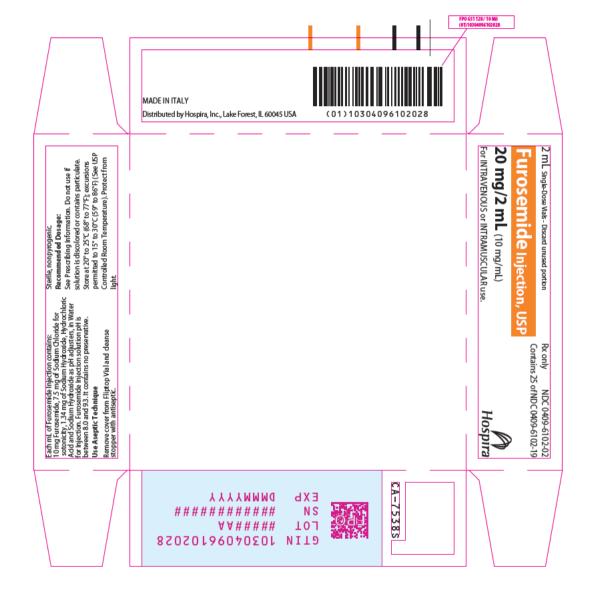




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