4 - PF 2005

DESCRIPTION

LASIX* is a diuretic whica anthranilic acid derivative tablets for oral administrat tain furosemide as the acid dient and the following ingredients; lactose mono NF, magnesium stearate NI NF, talc USP, and colloida dioxide NF. Chemically, it is 'N-Furfuryl-S-sulfamolynat' acid. LASIX is available a tablets for oral administrations age strengths of 20, 80 mg. Furosemide is a w off-white odorless crystallin deer. It is practically insol water, sparningly soluble in freely soluble in fluele also the constitution of the constitutio

learance and experimental exper

1 To 400 µg/mL are 91 in healthy individuals, fraction averages 2.3 tr apeutic concentrations. The onset of diuresis administration is with peak effect occurs with peak effect occurs with second hour. The diuretic effect is 6 to 8 in fasted normal me bioavailability of furt. LASIX Tablets and LASIV to 164% and 60%, r. that from an intraveno the drug. Although 1 more rapidly absorbed solution (50 minutes), be els and area under tablet (87 minutes), peels and care under divided to the control of th

LASIX is indicated in adults and pediatric patients for the treatment of dedma associated with congestive heart failure, cirrhosis of the liver, and renal disease, including the neiphrotic syndrome. LASIX is particularly useful when an agent with greater diruseful potential is desired. LasiX may be used in adults for the treatment of hypertension alone or in combination with other antilypertensive agents. Hypertensive patients who cannot be adequately controlled with thiszides will probably also not be adequately controlled with LASIX alone.

AINDICATIONS
s contraindicated in patients
nuria and in patients with a
y of hypersensitivity to
nide.

history of hypersensitivity to furosemide.

WARNINGS

In patients with hepatic cirrhosis and ascites, LASIX therapy is best initiated in the hospital. In hepatic coma and in states of electrolyte depletion, therapy should not be instituted until the basic condition is improved. Sudden alterations of fluid and electrolyte balance in patients with cirrhosis may precipitate hepatic coma; therefore, strict observation is necessary during the period of diuresis. Supplemental potassium chloride and, it required, an aldosterone antagonist are helpful in preventing hypokalemia and metabolic alkalosnisa and oliquria cocur during treatment of severe progressive renal disease, LASIX should be discontinued.
Cases of tinnitus and reversible or irreversible hearing impairment have been reported. Usually, reports indicate that LASIX ottoloxicity is associated with rapid injection, severe renal impairment, doses exceeding several times the usual commended dose, or concomitant therapy with aminogicus electrolius, ethacryum with aminogicus de antibiotic, ethacryum with aminogicus ethacryum with amin

General Excessive diuresis may cause dehydration and blood volume reduction with circulatory collapse and possibly vascular thrombosis and embolism, particularly in elderly bly vascular thrombosis and embolism, particularly in elderly particularly in elderly particularly in elderly particularly in elderly application control of the particular development of the particular development of the particular development of the product of the pr

matosus. As with many other drugs, patients should be observed regularly for the possible occurrence of blood dyscrasias, liver or kidney damage, or other idiosyncratic reactions.

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Information for Patients
Patients receiving LASIX should be advised 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.
Patients with diabetes mellitus should be told that furosemide may increase blood glucose levels and thereby affect urine glucose tests. The skin of some patients may be medicated to the effects of sunsigns with the skin of some patients may be medicated to the effects of sunsigns with the skin of some patients may be medicated to the effects of sunsigns with the skin of some patients may be more supplied to the effects of sunsigns with the skin of some patients may be more patients and processed blood pressure, including over-the-counter products for appetite suppression and cold symptoms.

Laboratory Tests

products for appetite suppression and cold symptoms.

Laboratory Tests
Serum electricitytes (particularly potassium), CO₂ creatinine and BUM potassium), CO₂ creatinine and BUM should be determined frequently during the first few months of LASM therapy and periodically thereafter. Serum and urine electrolyte determinations are particularly important when the patient is somiting protectly on the patient is somiting protectly on the patient is should be corrected or the drug temporarily withdrawn. Other medications may also influence serum electrolytes. Reversible elevations of BUN may cocur and are associated with dehydration, which should be avoided, particularly in patients with renal insufficiency.

Unine and blood glucose should be checked periodically in diabetics. LASIX may lower serum levels of calcium (rarely cases of tetanh cose suspected of latent diabetes. LASIX may lower serum levels of calcium (rarely cases of tetanh agenesium (rarely cases of tetanh agenesium carely cases of tetanh accordingly, serum levels of these electrolytes should be determined periodically.

Drug Interactions

periodically.

Prus Interactions
LASIX may increase the ototoxic potential of aminoglycoside antibiotics, especially in the presence of impaired renal function. Except in life-threatening situations, avoid this combination.
LASIX should not be used concomitantly with ethacrynic acid because of the possibility of ottoxicity. Patients receiving high does of salicylates concomitantly with LASIX, as in rheumatic disease, may experience salicylate toxicity at lower does because of competitive renal excretory sites.

ence salicylate toxicity at tower ous-because of competitive renal excretory sites.

LASIX has a tendency to antagonize the skeletal muscle relaxing effect of tubocurarine and may potentiate the action of succinylcholine. Lithium generally should not be given with diuretics because they reduce lithium's renal clearance and add a high risk of lithium toxicity.

LASIX may add to or potentiate the therapeutic effect of other antihypertensive drugs. Potentiation occurs with ganglionic or peripheral adrenergic blocking drugs.

LASIX may decrease arterial responsiveness to norepinephrine. However, nonepinephrine may still be used effectived and ministration of succinal to the succession of the

tensive effect of LASIX is achieved.

Carcinogenesis. Mutagenesis.
Impairment of Fertility
Furosemide was tested for carcinogeneity by oral administration in one strain of mice and one strain of arts. A small but significantly increased incidence of mammary gland carcinomas occurred in female mice at a dose 17.5 times the maximum human dose of 600 mg.
There were marginal increases in uncommon tumors in male rats at a dose of 15 mg/kg (slightly greater than the maximum human dose) but not at 30 mg/kg.

Turosemide was devoid of mutagenic activity in vancous strains of sumonellar typrimurium when tested in the presence or absence of some of the properties of the properties of the properties of the presence of a succession of the presence of absence of an in vitro metabolic activation system, and questionably positive for

egle intuation in mouse ly hippoina elels in the presence of rat liver 93 at the highest dove tested. Furosemide exchange in human elels in vitro but other studies on chromosomal abecandage in human ells in vitro save conflicting results. In Chinese harmatoria in human ells in vitro gave conflicting results. In Chinese harmatoria human ells on vitro gave conflicting results. In Chinese harmatoria in the confliction of the confl the rat and a business.

The regularity of the result of t Mothers it appears should be administer mother.

Geriatric Use
Controlled clinical studies of LASIX
did not include sufficient numbers
of subjects aged 65 and over to
determine whether they respond
differently from younger subjects.
Oldiferently from younger subjects.
Oldiferently from younger subjects.
Oldiferently from younger subjects.
Oldiferently from younger patients. In general, dose
selection for the elderly patient
should be cautious, usually starting
at the low end of the dosing range,
effecting the greater frequency of
deepending the greater frequency of
deepending the greater frequency of
deepending the greater frequency
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
delerly patients are more likely to
have decreased renal function, car
should be taken in dose selection
and it may be useful to monitor
renal function, (see PRECAUTIONS: are categorize

gene muta cells in the the highest did not in

s ntrahepati jaundice)

emic Hypersensitivity systemic vasculitis interstitial nephritis necrotizing anglitis

1. 2. 3. 4. 5. 6. 7.

ologic Reacti anemia (rare) ocytopenia ocytosis (rare) tic anemia

principal signs and syn ose with LASIX are blood volume re ension, electrolyte in kalemia and hypoc

nptoms of dehydra-duction, nbalance,

hypotension, electrolyte imbalance, hypotension, and hypotholroemic alkaloiss, and are extensions of its diuretic action. The acute toxicity of LASIX has been determined in mice, rats and dogs. In all three, the oral LD₂₀ exceeded 1000 mg/kg body weight, while the intravenous LD₂₀ ranged from 300 to 680 mg/kg. The acute intragastric toxicity in neonatal rats is 7 to 10 times that of adult rats. The concentration of LASIX 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 derianage must be assured in patients with urinary bladder outlet obstruction (such as prostatic hypertrophy). Hemodialysis does not accelerate furosemide elimination.

DOSAGE AND ADMINISTRATION

drains, with urinary tion (such as prostation) with urinary should be individualized according to patient response to gain maximal therapeutic response and to determine the minimal dose needed to maintain that response. LASIX is 20 to 80 mg given as a slight dose. Ordinary a prompt diuresis ensues in needed the same dose to the same dose the same dose to the same dose under the same dose the same dose the same dose the same dose under the same dose the same dose the same dose the same dose under the same dose of the same dose of the same dose may be increased. The dose may be increased. The dose may be increased. The dose may be increased the same dose may be increased to the same dose of th

safely in. 2 to 4 consessabley patients — In general, was selection for the elderly patient should be cautious, usually starting at the low end of the dosing range see PRECAUTIONS: Geriatric Use). Pediatric patients is 2 mg/kg body weight, and the see that the second seed on all LASIX in pediatric patients is 2 mg/kg body weight, given as a single dose. If the diuretic response is not satisfactory after the initial dose, dosage may be increased by 1 or 2 mg/kg no sooner than 6 to 8 hours after the previous dose. Doses greater than 6 mg/kg no sooner after patients, the dose should be adjusted to the minimum effective level.

Hypertension

Therapy Should be according the second of the

adjusted to the minimum effective level.

Hypertension
Therapy should be individualized according to the patient's response to gain maximal therapeutic response and to determine the minimal dose needed to maintain the therapeutic response.

Adults — The usual missil dose of Adults — The usual missil gone according to response. If response is not satisfactory, add other antihypertensive agents.
Changes in blood pressure must be acrefully monitored when LASIX is used with other antihypertensive agents.
Changes in blood pressure must be displayed to the displayed of the agents should be reduced by at least 50 percent when LASIX is added to the regimen. As the blood pressure alls under the potentiating effect of LASIX, a further reduction in dosage or even discontinuation of other antihypertensive drugs may contain the containing at the low of the dosing range (see PRE-CAUTIONS: Geriatric Use).

cautious, usually staring at the flow and of the dosing range (see PRE-CAUTIONS: Geriatric Use).

HOW SUPPLIE LASIN (throsemide) Tablets 20 mg are supplied as white, oval, monogrammed tablets in Bottles of 100 (NCO 0039-067-10), 500 (NDC 0039-0067-50), and 1000 (NDC 0039-0067-50), and 1000 (NDC 0039-0067-70). The 20 mg tablets are imprinted with "Lasix" on one side. LASIX Tablets 40 mg are supplied as white, round, monogrammed, scored tablets in Bottles of 100 (NDC 0039-0069-5), 1000 (NDC 0039-0069-0), and Unit Dose Packs of 100 (NDC 0039-0069-0), he 80 mg tablets are imprinted with "Lasix" 40" on one side. LASIX Tablets So mg are supplied as white, round, monogrammed, actetied egic labets in Bottles of 50 (NDC 0039-0066-50), he 80 mg tablets are imprinted with "Lasix" 80" on one side and the Hoechst logo on the other, or with "Lasix" 80" on one side and the Hoechst logo on the other, or with "Lasix" 80" on one side and the Hoechst logo on the control of the side of the Hoechst logo on the control of the side of the Hoechst logo on the control of the side of the Hoechst logo on the control of the side of the Hoechst logo on the control of the side of the Hoechst logo on the control of the side of the Hoechst logo on the

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Lasix® furosemi Tablets 20,