DIAMOX® SEQUELS®



Rx only d NOVEMBER 2004 1007542502

DISSCRIPTION
DIAMOX SEQUELS (Acetazolamide Extended-Release Capsules) are an inhibitor of the erzyme carbonic anhydrase.
DIAMOX is a white to faintly yellowish white crystalline, odoriess powder, weakly acidic, very slightly soluble in water, and slightly soluble in alcohol. The chemical name for DIAMOX is N-(5-Sulfarmoyl-1,3,4-thiadiazol-2-yl) acetamide and has the following chemical

NHCOCH H2NO2S

MW 222 24 CaHaNaOaS

DIAMOX SEQUELS are extended-release capsules, for oral administration, each containing 500 mg of acetazolamide and the following inactive ingredients:

Microcrystalline cellulose, sodium lauryl sulfate and tale.

and talc

and talc.
The ingredients in the capsule shell are D&C red
no. 28, D&C yellow no. 10, FD&C red no. 40,
gelatin and titanium dioxide.
The ingredients in the imprinting ink are D&C
yellow no. 10 aluminum lake, FD&C blue no. 1
aluminum lake, FD&C blue no. 2 aluminum
lake, FD&C red no. 40 aluminum lake, pharmaceutical glaze, propylene glycol and synthetic
iron exide.

ceutical glaze, propylene iron oxide.

iron oxide.

CLINICAL PHARMACOLOGY

DIAMOX is a potent carbonic anhydrase inhibitor, effective in the control of fluid secretion (e.g., some types of glaucoma), in the treatment of certain convulsive disorders (e.g., epilepsy), and in the promotion of diuresis in instances of abnormal fluid retention (e.g., cardiac endema).

Instances of automatinal induction (e.g., car-diac edema).

DIAMOX is not a mercurial diuretic. Rather, it is a non-bacteriostatic sulfonamide possessing a chemical structure and pharmacological activi-ty distinctly different from the bacteriostatic sulal Itol Trabuter Usabasa (Incomparison of Comparison of Co

ous effect of securities permiss a reduction dosage frequency.

Plasma concentrations of acetazolamide per from three to six hours after administration DIAMOX SEQUELS, compared to one to for hours with tablets. Food does not after bioavailability of DIAMOX SEQUELS.

bioavailability of DIAMOX SEQUELS. Placebo-controlled clinical trials have show that prophylactic administration of DIAMOX at a dose of 250 mg every eight to 12 hours (or a 500 mg controlled-release capsule once daily before and during rapid ascent to altitude results in fewer and/or less severe symptoms of acute mountain sickness (AMS) such as headache, nausea, shortness of breath, dizzi-ness, drowsiness, and fatigue. Pulmonary func-tion (e.g., minute ventilation, expired vital capacity, and peak flow) is greater in the DIAMOX treated group, both in subjects with AMS and asymptomatic subjects. The DIAMOX treated climbers also had less difficulty in sleep-ing.

treated unincursors, ing.

INDICATIONS AND USAGE
For adjunctive treatment of: chronic simple (open-angle) glaucoma, secondary glaucoma, and preoperatively in acute angle-closure glaucoma where delay of surgery is desired in order to lower intraocular pressure. DIAMOX is also indicated for the prevention or amelioration of symptoms associated with acute mountain includes desnite gradual ascent. sickness despite gradual ascent.

CONTRAINDICATIONS

Hypersensitivity to acetazolamide or any excipi-ents in the formulation. Since acetazolamide is a sulfonamide derivative, cross sensitivity between acetazolamide, sulfonamides and

ents in the infinitiation. Since acetazolamine is a sulfonamide derivative, cross sensitivity between acetazolamide, sulfonamides and other sulfonamide derivatives is possible. Acetazolamide therapy is contraindicated in situations in which sodium and/or potassium blood serum levels are depressed, in cases of marked kidney and liver disease or dysfunction, in suprarenal gland failure, and in hyperchloremic acidosis. It is contraindicated in patients with cirrhosis because of the risk of development of hepatic encephalopathy. Long-term administration of DIAMOX is contraindicated in patients with chronic non-congestive angle-closure glaucoma since it may permit organic closure of the angle to occur while the worsening glaucoma is masked by lowered intraocular pressure.

WARTHUM.

Fatalities have occurred, authors, severe reactions to sulfonamides including stevens-Johnson syndrome, toxic epidermal necrolysis, fulminant hepatic necrosis, anaphyramanulocytosis, aplastic anemia, and severe sever recur when a suttonamude is readministered, irrespective of the route of administration, listigns of hypersensitivity or other serious reactions occur, discontinue use of this drug. Caution is advised for patients receiving concomitant high-dose aspirin and DIAMOX, as anorexia, tachypnea, lethargy, metabolic acidosis, coma, and death have been reported.

PRECAUTIONS

Reneral

Increasing the dose does not increase the diuresis and may increase the incidence of drowsiness and/or paresthesia. Increasing the dose often results in a decrease in diuresis. Under dose certain circumstances ices, given in Her to however, n in conju very large have been diuretics in o doses unction other secure diuresis

complete refractory failure.

Information for Patients

Adverse reactions common to all sulfonamide derivatives may occur anaphylaxis, fever, rash (including erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necroly-sis), crystalluria, renal calculus, bone marrow sis), crystallura, renal calculus, bone marrov depression, thrombocytopenic purpura hemolytic anemia, leukopenia, pancytopenia and agranulocytosis. Caution is advised fo early detection of such reactions and the drug should be discontinued and appropriate thera pancytopenia s advised for py instituted. with pulmonary entilation may be

emphysema where alveolar ventilation may be impaired, DIAMOX which may precipitate o aggravate acidosis should be used with caution agiravate acidosis should be used with caution. Gradual ascent is desirable to try to avoid acute mountain sickness. If rapid ascent is undertak-en and DIAMOX is used, it should be noted that such use does not obviate the need for prompt descent if severe forms of high altitude sickness occur, i.e., high altitude pulmonary eterna (HAPE) or high altitude pulmonary eterna (HAPE) or high altitude pulmonary eterna (HAPE) or high altitude pulmonary eterna Caution is advised for patients receiving con-comitant high-does aspirin and DIAMOX, as anorexia, tach-yonea, lethargy, metabolic acido-sis, coma, and death have been reported (see WARNINGS).

RNINGS). wanninus).
Both increases and decreases in blood glucose have been described in patients treated with acetazolamide. This should be taken into consideration in patients with impaired glucose tolerance or diabetes mellitus.

Acetazolamide treatment may cause electrolyt Acetazolamide treatment may cause electrolyte imbalances, including hyponatremia and hypokalemia, as well as metabolic acidosis. Therefore, periodic monitoring of serum elec-trolytes is recommended. Particular caution is recommended in patients with conditions that are associated with, or predispose a patient to, electrolyte and acid/base imbalances, such as natients with impaired reals furction (inclusives).

electrolyle and acid/base imbalances, such as patients with impaired renal function (including elderly patients; see PRECAUTIONS, Gerlatire Use), patients with diabetes mellitus, and patients with majaried alveolar ventilation. Some adverse reactions to acetazolamide, such as drowsiness, fatigue, and myopia, may impair the ability to drive and operate machinery. Laboratory Tests To monitor for hematologic reactions common to all sulfonamides, it is recommended that a baseline CBC and platelet count be obtained on patients prior to initiating DIAMOX therapy and at regular intervals during therapy. If significant changes occur, early discontinuance and insti-tution of appropriate therapy are important. Periodic monitoring of serum electrolytes is recommended. recommended.

(over)

Drug Interactions
Asprin - See WARNINGS
DIAMOX modifies phenytoin metabolism with increased serum levels of phenytoin. This may increase or enhance the occurrence of osteomalacia in some patients receiving chronic phenytoin therapy. Caution is advised in patients receiving chronic phenytoin therapy. Caution is advised in patients receiving chronic phenytoin therapy. Caution is advised in patients receiving chronic phenytoin therapy. Caution is advised in patients receiving chronic phenytoin of primidone, DIAMOX may decrease serum concentrations of primidone, DIAMOX may decrease in articonvolusnt effect. Caution is advised when beginning, discontinuing, or changing the dose of DIAMOX in patients receiving primidone. Because of possible additive effects with other carbonic arrhydrase inhibitors, concornitant use is not advisable. Acetazolamide may increase the effects of other folic acid antagonists.
Acetazolamide decreases urinary excretion of amphetamine and may enhance the magnitude and duration of their effect.
Acetazolamide reduces urinary excretion and the lithium may be decreased.
Acetazolamide may prevent the urinary antiseptic effect of methenamine.
Acetazolamide and sodium bicarbonate used concurrently increase the risk of renal calculus formation.
Acetazolamide may elevate cyclosporine levels.
Drugfaboratory test interactions.
Sulfonamides may give false negative or decreased values for urinary phenolsulfon-phthalien and phenol red elimination values for urinary protein, and serum uric acid. Acetazolamide may elevate cyclosporine levels.
Drugfaboratory test interactions.
Sulfonamides may give false negative or decreased values for urinary phenolsulfon-phthalien and phenol red elimination values for urinary protein, and serum uric acid. Acetazolamide may produce an increased level of crystals in the urine.
Acetazolamide may levate cyclosporine levels.
Drugfaboratory test interactions.
Sulfonamides may give false negative or decreased values for urinary phenolsulfon-phthalien and phenol red elimination v

veralogenic effects: Pregnancy
Category C
Acetazolamide, administered orally or parenterally, has been shown to be teratogenic (defects
of the limbs) in mice, rats, hamsters, and rabbits. There are no adequate and well-controlled
studies in pregnant women. Acetazolamide
should be used in pregnancy only if the potential benefit justifies the potential risk to the fetus.
Nursing Mothers
Because of the potential for serious adverse
reactions in nursing infants from DIAMOX, a
decision should be made whether to discontinue nursing or to discontinue the drug taking into
account the importance of the drug to the
mother. Acetazolamide should only be used by
nursing women if the potential benefit justifies
the potential risk to the child.

Pediatric Use
The safety and effectivenes
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The potential is No to en un. Pediatric Use
The safety and effectiveness of DIAMOX SEOUELS in pediatric patients below the age of 12 years have not been established. Growth retardation has been reported in children receiving long-term therapy, believed secondary to chronic acidosis. Geriatric Use
Metabolic acidosis, which can be severe, may occur in the elderly with reduced renal function. In general, does selection for an elderly patient should be cautions, range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and concomitant disease or other drug therapy.

drug therapy.

ADVERSE REACTIONS

Body as a whole: Headache, malaise, fatigue, fever, pain at injection site, flushing, growth retardation in children, flaccid paralysis, anaphadose.

programs of the motion in color parayses, and phylaxis.

Digestive: Gastrointestinal disturbances such as nausea, vomitting, diarrhea.

Hematological/ymphatic: Blood dyscrasias such as aplastic anemia, agranulocytosis, leukopenia, thrombocytopenic purpura, mele-

such as aplastic anemia, agranulocytosis, leukopenia, thrombocytopenic purpura, melena.

Hepato-bililary disorders: Abnormal liver function, cholestatic jaundice, hepatic insufficiency, fulminant hepatic necrosis.

Metabolic/Murtifional: Metabolic acidosis, electrolyte imbalance, including hypokalemia, hyponatremia, osteomalacia with long-term phenytoin therapy, loss of appetite, taste alteration, hyperhypoglycemia.

Nervous: Drovisness, paresthesia (including numbness and tinoling of extremities and face), depression, excitement, ataxia, confission, convulsions, dizziness.

Skitr: Allergic skin reactions including urticaria, photosensitivity, Slevens-Johnson syndrome, toxic epidermal necrolysis.

Special senses: Hearing disturbances, tinnitus, transient myopia.

Urogenital: Crystalluria, increased risk of nephrolithiasis with long-term therapy, hematuria, glycosuria; renal failure, polyuria.

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Despetic antidote is known. Treatment should be symptomatic and supportive.

Electrolyte imbalance, development of an acidotic state, and central nervous system effects might be expected to occur. Serrum electrolyte alleves should be monitored.

Supportive measures are required to restore electrolyte and ph balance. The acidotic state can usually be corrected by the administration of bicarbonate.

Despite its high intraerythrocytic distribution and plasma protein binding properties.

DIAMOX may be dialyzable. This may be particularly important in the management of DIAMOX overdosage when complicated by the presence of renal failure.

DOSAGE AND ADMINISTRATION

Glaucoma

DOSAGE AND ADMINISTRATION
Glaucoma
The recommended dosage is 1 capsule (500
mg) two times a day. Usually 1 capsule is
administered in the morning and 1 capsule in
the evening. It may be necessary to adjust the
dose, but it has usually been found that dosage
in excess of 2 capsules (1 g) does not produce
an increased effect. The dosage should be
adjusted with careful individual attention both to
symptomatology and intraocular tension. In all
cases, continuous supervision by a physician is
advisable.

In those unusual instances where executed.

cases, continuous supervision by a physician is advisable. In those unusual instances where adequate control is not obtained by the twice-a-day administration of DIAMOX SEQUELS, the desired control may be established by means of DIAMOX (tablets or parenteral). Use tablets or parenterall. Use tablets or parenterall. Use tablets or parenteral in accordance with the more frequent dosage schedules recommended for these dosage forms, such as 250 mg every four hours, or an initial dose of 500 mg followed by 250 mg or 125 mg every four hours, depending on the case in question.

Acute Mountain Sickness
Dosage is 500 mg to 1000 mg daily, in divided doses using tablets or extended-release capsules as appropriate. In circumstances of rapid ascent, such as in rescue or military operations, the higher dose level of 1000 mg is recommended. It is preferable to initiate dosing 24 to 48 hours before ascent and to continue for 48 hours before ascent and continue for 48 hours while at high altitude, or longer as necessary to control symptoms.

HOW SUPPLIED

sary to control symptoms. HOW SUPPLIED DIAMOX® SEQUELS®

ELS[®] (Acetazolamide Capsules) are available DIAMOX® SEQUELS® (Acetazolamide Extended-Release Capsules) are available as 500 mg; Orange opaque cap and orange opaque body filled with white to off-white pellets. Imprinted in black ink, barr 699. Available in bottles of: 100 NDC 51285-758-102 Store at 20° to 25°C (88° to 77°F) [See USP Controlled Room Temperature].

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