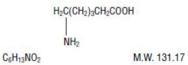
DESCRIPTION

Aminocaproic acid, USP is 6-aminohexanoic acid, which acts as an inhibitor of fibrinolysis

Its chemical structure is:



Aminocaproic acid is soluble in water, acid, and alkaline solutions; it is sparingly soluble in methanol and practically insoluble in chlorofor

Each Aminocaproic Acid Tablet USP, for oral administration contains 500 mg of aminocaproic acid and the following inactive ingredients: povidone, crospovidone, stearic acid, and magnesium stearate.

FDA approved dissolution specification differs from the USP dissolution specification

The fibrinolysis-inhibitory effects of aminocaproic acid appear to be exerted principally via inhibition of plasminogen activators and to a lesser degree through antiplasmin activity.

In adults, oral absorption appears to be a zeroorder process with an absorption rate of 5.2 g/hr. The mean lag time in absorption is 10 minutes. After a single oral dose of 5 g, absorption was complete (F=1). Mean ± SD peak plasma concentrations (164 ± 28 mcg/mL) were reached within 1.2 ± 0.45 hours.

After oral administration, the apparent volume of distribution was estimated to be 23.1 ± 6.6 L (mean ± SD). Correspondingly, the volume of distribution after intravenous administration has been reported to be 30.0 ± 8.2 L. After prolonged administration, aninocaproic acid has been found to distribute throughout extravascular and intravascular compartments of the body, penetrating human red blood cells as well as other tissue cells.

Renal excretion is the primary route of elimination. Sixty-five percent of the dose is recovered in the urine as unchanged drug and 11% of the dose appears as the metabolite adipic acid. Renal clearance (116 mL/min) approximates endogenous creatinine clearance. The total body clearance is 169 mL/min. The terminal elimination half-lef for aminocaproic acid is approximately 2 hours.

Amhocaproic acid is useful in enhancing hemostasis when fibrinolysis contributes to bleeding. In life-threatening situations, transfusion of appropriate blood products and other emergency measures may be required.

Fibrinolytic bleeding may frequently be associated with surgical complications following heart

surgery
(with or without cardiac bypass procedures) and portacaval shunt; hematological disorders such as
amegakaryocytic thrombocytopenia (accompanying aplastic anemia); acute and Wethreatening abruption
placentae; hepatic cirrhosis; and neoplastic disease such as carcinoma of the prostate, lung, stomach,

and cervix.

Urinary fibrinolysis, usually a normal physiological phenomenon, may contribute to excessive urinary tract fibrinolytic bleeding associated with surgical hematuria (following prostatectomy and nephrectomy) or nonsurgical hematuria (accompanying polycystic or neoplastic diseases of the genitourinary system). (See **WARNINGS**.)

CONTRAINDICATIONS

Aminocaproic acid should not be used when there is evidence of an active intravascular clotting process.

When there is uncertainty as to whether the cause of bleeding is primary

fibrinolysis or disseminated intravascular coagulation (DIC), this distinction must be made before administering aminocaproic acid.

- The following tests can be applied to differentiate the two conditions:

 Platetet count is usually decreased in DIC but normal in primary fibrinolysis.

 Protamine paracoagulation test is positive in DIC; a precipitate forms when protamine sulfate is dropped into citrated plasma. The test is negative in the presence of primary fibrinolysis.

 The euglobulin clot lysis test is abnormal in primary fibrinolysis but normal in DIC

Aminocaproic acid must not be used in the presence of DIC without concomitant heparin.

WARNINGS

In patients with upper urinary tract bleeding, aminocaprok acid administration has been known to cause intrarenal administration has been known to cause intrarenal throughout an among the businesson, among the acid should not be used in hematuria of upper urinary tract origin, unless the possible benefits outweigh the risk.

Subendocardial hemorrhages have been observed in dogs given intravenous infusions of 0.2 times the maximum human therapeutic dose of aminocaproic acid and in monkeys given 8 times the maximum human therapeutic dose of aminocaproic acid.

Fatty degeneration of the myocardium has been reported in dogs given intravenous doses of aminocaproic

acid at 0.8 to 3.3 times the maximum human therapeutic dose and in monkeys given intravenous doses of aminocaproic acid at 6 times the maximum human therapeutic dose.

Rarely, skeletal muscle weakness with necrosis of muscle fibers has been reported following

probinged administration. Clinical presentation may range from mild myalgias with weakness and fatigue to a severe proximal myopathy with rhabdomyolysis, myoglobinuria, and acute renal failure. Muscle enzymes, especially creatine phosphokinase (CPK) are elevated. CPK levels should be monitored in patients on long-term therapy. Anminocaproic acid

Resolution follows discontinuation of aminocaproic acid; however, the syndrome may recur if aminocaproic acid is restarted.

The possibility of cardiac muscle damage should also be considered when skeletal myopathy occurs. One case of cardiac and hepatic lesions observed in man has been reported. The patient received 2 g of aminocaproic acid every 6 hours for a total dose of 26 g. Death was due to continued cerebrovascular hemorrhage. Necrotic changes in the heart and liver were noted at autopsy.

GENERAL PRECAUTIONS

Aminocaproic acid inhibits both the action of plasminogen activators and to a lesser degree, plasmin activity. The drug should NOT be administered without a definite diagnosis and/or laboratory finding indicative of hyperfibrinolysis (hyperplasminolis). I Inhibition of Intrinolysis by aminocaproic acid may theoretically result in citating or thrombosis. However, there is no definite evidence that administration of aminocaproic acid has been responsible for the few reported cases of intravascular clotting which followed this treatment. Rather, a species blas such in the value cluster clotting was most likely due to the patient's preexisting clinical condition, e.g., the presence of DIC. It has been postulated that extravascular clots formed in vivo may not undergo spontaneous lysis as do normal clots.

Reports have appeared in the iterature of an increased incidence of certain neurological deficits such as hydrocephalus, cerebral ischemia, or cerebral vasospasm associated with the use of antifiprinolytic agents in the treatment of subarachnoid hemorrhage (SAH). All of these events have also been described as part of the natural course of SAH), or as a consequence of diagnostic procedures such as angiography. Drug relatedness remains unclear.

Aminocaproic acid should not be administered with Factor IX Complex concentrates or Anti-Inhibitor Coagulant concentrates, as the risk of thrombosis may be increased.

LABORATORY TESTS

The use of aminocaproic acid should be accompanied by tests designed to determine the amount of fibrinolysis present. There are presently available: (a) general tests such as those for the determination of the lysis of a clotof blood or plasma; and (b) more specific tests for the study of various phases of the fibrinolysin, and antifibrinolysin.

DRUG INTERACTIONS

Protopgation of the template bleeding time has been reported during continuous intravenous infusion of aminocaproic acid at dosages exceeding 24 giday. Platelet function studies in these patients have not demonstrated any significant platelet dysfunction. However, in vitro studies have shown that at high concentrations (7.4 mMoVL or 0.97 mg/mL and greater) aminocaproic acid inhibits ADP and collagen-induced platelet aggregation, the release of ATP and servicionin, and the binding of fibrinogen to the platelet in a concentration-response manner. Poloming a 10 globus of aminocaproic acid, transient peak plasma concentrations of 4.6 mMoVL or 0.3 mg/mL. Administration of a 5 globus of a concentration-response manner. Poloming a 10 globus of aminocaproic acid, transient peak plasma concentrations for 3.6 mMoVL or 0.3 mg/mL. Administration of a 5 globus of the plate of

CARCINOGENESIS & MUTAGENESIS & IMPAIRMENT OF FERTILITY

Long-term studies in animals to evaluate the carcinogenic potential of aminocaproic acid and studies to evaluate its integration of the maximum human therapeutic dose of aminocaproic acid not orate of both sexes impaired fertility as evidenced by decreased inclination of the maximum human therapeutic dose of aminocaproic acid to rats of both sexes impaired fertility as evidenced by decreased implentations, futer sees and number of pups born.

PREGNANCY

Precinancia.

Animal reproduction studies have not been conducted with aminocaproic acid. It is also not known whether aminocaproic acid and cause letal harm when administered to a pregnant woman or can affect reproduction capacity. Aminocaproic acid should be given to a pregnant woman only if clearly needed.

NURSING MOTHERS

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when aminocaproic acid is administered to a nursing woman.

PEDIATRIC USE

Safety and effectiveness in pediatric patients have not been established.

ADVERSE REACTIONS

Aminocaproic acid is generally well tolerated. The following adverse experiences have been reported:

General: Edema, headache, malaise

Hypersensitivity Reactions: Allergic and anaphylactoid reactions, anaphylaxis

Cardiovascular: Bradycardia, hypotension, peripheral ischemia, thrombosis.

Gastrointestinal: Abdominal pain, diarrhea, nausea, vomiting.

Hematologic: Agranulocytosis, coagulation disorder, leukopenia, thrombocytopenia

Musculoskeletal: CPK increased, muscle weakness, myalqia, myopathy (see WARNINGS), myositis, rhabdomyolysis.

Neurologic: Confusion, convulsions, delirium, dizziness, hallucinations, intracranial hypertension, stroke, syncope

Respiratory: Dyspnea, nasal congestion, pulmonary embolism.

Skin: Pruritis, rash.

Special Senses: Tinnitus, visiondecreased, watery eyes.

Urogenital: BUN increased, renal failure. There have been some reports of dry ejaculation during the period of aminocaproic acid treatment. These have been reported to date only in hemophilia patients who received the drug after undergoing dental surgical procedures. However, this symptom resolved in all patients within 24 to 48 hours of completion of therapy.

To report SUSPECTED ADVERSE REACTIONS, contact Edenbridge Pharmaceuticals, LLC at 877-381-3336 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

A dosage regimen may be followed by administering Aminocaproic Acid Tablets as follows:

For the treatment of acute bleeding syndromes due to elevated fbrinolytic activity, it is suggested that 10 Aminocaproic Acid Tablets USP, 500 mg (5 g) be administered during the first hour of treatment, followed by a continuing rate of 2 Aminocaproic Acid Tablets USP, 500 mg (1 g) per hour. This method of treatment would ordinary be continued for about 8 hours or until the bleeding situation has been controlled.

HOW SUPPLIED

Aminocaproic Acid Tablets USP, 500 mg

Each round, convex, white to off-white tablet scored on one side and imprinted with on the other side, contains 500 mg of Aminocaproic acid, USP.

Bottle of 30 - NDC 42799 054 02

Store at 20°-25°C (68°-77°F)[see USP Controlled Room Temperature];Dispense in Tight Containers.

REFERENCES

1Stefanini M, Dameshek W: The Hemorrhagic Disorders, Ed. 2, New York, Grune and Stratton; 1962:510-514.

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL





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