ANTIHEMOPHILIC FACTOR (HUMAN) HT PROFILATE™ Dry Method

DESCRIPTION

Antihemophilic Factor (Human), HT Profilote is a stable freeze dried concentrate of Factor VIII (AHF, AHG) prepared from pooled plasme by cryoprecipilation of the active lactor and its subsequent purification and concentration by chemical means. Antihemophilic Factor patency (Factor VIII) is expressed on the battle label in international Units (I.U.). HT Profilate is a sterile prepara-tion intended for introvenous administration. Each vial is a single dase container

This product is prepared from units of human plasma which have been rested and found nonreactive for hapathis 8 surface antigen (148:Ag) by an FDA required test. However, methods presently available are not sensitive enough to detect oil units of potentially inflactious plasma, and the risk of transmitting hepatitis is still present.

The process used in the manufacture of HT Profilate includes a dry heat-treatment step designed to reduce the risk of transmitting HTLV-III virus which has been suggested as the cause of Acquired Immunodeliciency Syndrome (AIDS). However, no method has been shown to be totally effective in completely eliminating the risk of AIDS infectivity from Antihomophilic Factor (Human).

CLINICAL PHARMACOLOGY
Antihemophilic Factor (Factor VIII) is a constituent of normal plasma required for clotting. The administration of Antihemophilic Factor (Human), HT Profilota temporarily increases the plasma level of this clotting factor, thus minimizing the hozards of hemorrhage. Following administration, the mean half-life of Factor VIII is approximately 15 hours. imately 12 hours.

administration, the mean half-life of Factor VIII is approximately 12 hours.

A newly recognized retrovirus has been implicated as a possible causative agent of Acquired Immunodificiency Syndrame (AIDS). This virus has been given several names, including human 1-flymphotropic virus type III (HTV-III), lymphadenaphathy-associated virus (LAV), and AIDS-associated retrovirus (ARV) and has been commonly referred to in the listorature as HTV-III/LAV. The effectiveness of the heat-treatment step used in the manufacture of HT Profilate was assessed by an in-vitro inactivation study using live virus added to Antihamophilic Factor (Human). HT Profilate was ossessed by an in-vitro inactivation study using live virus added to Antihamophilic Factor (Human). HT Profilate when 4.47 logs of the virus was intentionally added to the product, the assay for HTV-IIII/LAV virus ofter processing showed a zero rosult. However, since the limit of datection of the virol assay is 2.0 logs, it can only be said with certainty that at least 2.47 logs of HTV-IIII/LAV virus is inactivated by the hophilization and heat treatment process. It was also shown in the same study that the time to inactivate do the prophilization and heat treatment process. It was also shown in the same study that the time to inactivate do the profilate was 37 minutes. INDICATIONS AND USAGE

Antihemophilic Factor (Human), HT Profilate is indicated soley for the prevention and control of bleeding in patients with moderate or severe Factor VIII deficiency due to hemophilic Ac or acquired Factor VIII deficiency due to hemophilic Ac or acquired Factor VIII deficiency due to hemophilic Factor (Human), HT Profilate is not indicated in the management of bleeding in patients with von Willabrand's disease.

CONTRAINDICATIONS

WARNINGS

VYARNINGS.

Viral hepatitis may be transmitted by this product. Potients with mild deficiencies, who consequently have not received multiple transfusions of blood or blood products, are at greatest risks? In this situation, the benefits of Antihensophilic Factor (Human), HT Profilate administration must be carefully weighed against the risk of viral hepatitis.

The causal loctors of Acquired Immunadeficiency Syndrome (AIDS) have not been fully defined, however, HTLV-III/LAV virus has been implicated as a possible causative agent of the disease. It is not presently known if other transmissible agents are involved. Alpha uses screening procedures to elimitate high risk plasma donors and a heat-treatment step in the manufacturing process to reduce the risk of transmitting AIDs. However, despite the careful selection of datons, it may be possible that the AIDS constative agents may still be present in and transmitted through this product.

PRECAUTIONS

GENERAL
Antihemophilic Factor (Human), HT Profilate should not be administered at a rate exceeding 10 ml/minute. Rapid administration may result in vasomotor reactions.

Same patients develop inhibitors to factor VIII. These patients may show no response to Antihemaphilic Factor (Human), HT Profilate or the response may be much lass than would otherwise be expected and larger doses are often required?—17 the management of patients with inhibitors requires careful mountaining, especially if surgical procedures are indicated. Patients with high inhibitor levels mountain the procedure of the procedure may not respond at all.

Nursing personnel and others who administer this material should exercise appropriate caution in handling because of the risk of exposure to viral hepatitis.

Discord only unused contents, Discord administration equip

PREGNANCY CATEGORY C

Animal reproduction studies have not been conducted with HT Profilete, it is also not known whether HT Profilete can cause fetal herm when administered to a pregnant women or can affect reproductive capacity. HT Profilete should be given to a company women as to the charge stage. should be given to a pregnant warran only if dearly needed

ADVERSE REACTIONS
Adverse reactions may include uniticatio, fever, chills, nausea, vomiting, headache.somnolence or lethorgy. Some patients may develop reactions of a mild nature following the administration of Antihemophilic Factor (Human), Hi Profilate. Adverse reactions may be on an altergic basis. If a reaction is noted and the potient requires additional Anthemophilic Factor (Human), product from a different lot should be administered.

Massive doses have rarely resulted in acute hamolytic anemia, increased bleeding tendency or hyperlibrinogenemia.

Antihemophilic Factor (Human), HT Profilate contains blood group specific is agglutinins and when large and/or Irequent doses are required in patients of blood group A, B, or AB, the patient should be monitared for signs of intravascular hemolysis and falling hematocril. Should this condition occur, thus leading to progressive hemolytic anemia, the administration of serologically compatible type O red blood cells should be considered.

DOSAGE AND ADMINISTRATION

Antihemophilic Factor (Human), HT Profilate must be administered intravenously within thran hours following reconstitution with the diluent supplied. Antihemophilic Factor (Human), HT Profilate may be administered either by injection (plastic syringe only) or infusion.

After reconstitution, parenteral drug products should be inspected visually for particulate moter and discoloration prior to administration, whenever solution and con-Antihemophilic Factor (Human), HT Profilate contains

prior to administration, whenever solution and con-

Antihemophilic Factor (AHF) activity is expressed in Inter-national Units (I.U.) on the product label. One unit approx-imates the activity in one nil of plasma. The following formula provides a guide of dosage.

Number of AMF = Body weight x20x 110lbs x 20 x 0.30 = 660 AHF units Example

Number of AHF ... Body weight x44x Dasired increase in units required in kg x44x Factor VIII percentage 50kg x 44 x 0.30 = 660 AHF units Example

Mild to moderate hymorrhages may usually be treated with a single administration sufficient to raise the plasma ANF level to 20 or 30 percent. In the event of more serious hemorrhage the patient's plasma AMF level should be raised to 30 to 50 percent. Infusions are generally required at twice daily intervals over several days?

Surgery in patients with factor VIII deficiency requires that the AHF level be raised to 50 to 80 percent with the level mointained at an above 30 percent for approximately two weeks post-aperatively. For dental axtractions, the AHF level should be raised to 50 percent immediately prior to the procedum: additional Antihemophilic Factor (Human) may be administered if bleeding recurs?

In patients with severe Factor VIII deficiency who experience frequent hemorrhages, Antihemophika Factor (Human), HT Prolikote may be administered prophyloctically on a daily or every other day schedula to rise the AHF level to approximately 15 percents.

RECONSTRUCTION

USE ASEPTIC TECHNIQUE

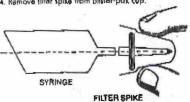
1. Warm diluent and concentrate battles to at least room temperature but not above 37°C.

2. Remove plastic flip-off cap from the diluent bottle.

- 3. Swab the exposed rubber surface with algohol. Do not leave excess cleaning agent in indentation on slopper.
- Ramove covering from one and of the double anded needle. Insert this exposed end of the needle through the depression in the center of the stopper in the battle. of diluons.
- Remove plastic flip-off cap from the concentrate bottle.
 Top bottle gently to distodge concentrate from sides
- Swab the exposed cubber surface with alcohol. Do not leave excess cleaning agent in indentation on stopper.
- Remove plastic cap from the upper and of the double ended needle now seated in the slopper of the diluent bottle. Hold concentrate bottle in one hand, invert the bottle of diluent in the other hand and puts the exposed end of the needle through the depression in the center of the stopper, making certain that the diluent is always obove the bottle of concentrate. There should be enough the center in the best the deep call the dilute of the center. vacuum in the bottle to draw in all the diluent.
- Disconnect the two bottles by removing the needle from the concentrate bottle stopper. Shake vigorously for ten seconds, then agitate or rotate concentrate bottle until all concentrate is disolved. Reconstitution requires approximately five to ten minutes. When the reconstitution procedure is strictly followed a few small particles may occasionally remain. The filter spike will retain particles and the labeled potency will not be reduced.

ADMINISTRATION
By Syringe:
USE ASEPTIC TECHNIQUE
1. Peel cover from filter spike package.

- 2. Remove prolective cover from a sterile disposable plastic syringe
- Securely install the syringe into the exposed inlet of the litter spike using slight twisting motion.
- 4. Remove filter spike from blister-pak cup.



- Insert spike into reconstituted concentrate bottle perpendicular to stopper. If spike is not held perpendicular it may push stopper into bottle rendering contents unuscobe.
- Remove and discard the filter spike from the syringe and attach syrings to an infusion set, expel air from syringe, perform venipuncture and administer slowly.
- If the patient is to receive more than one bottle of concentrate, the infusion set will allow this to be per-formed with a single venipuncture.
- 8. Discard all administration equipment after use.

ADMINISTRATION By Infusion Set: USE ASEPTIC TECHNIQUE

1. Close clamp on administration set.

- With bottle upright, insert piercing pln straight through stapper center. Do not twist or angle.
- Immediately invert bottle to automatically establish proper fluid level in drip chamber (half full).
- Attach infusion set, open clamp and oflow solution to expel air from tubing needle, then close clamp.
- 5. Perform venipuncture and adjust flow
- 6. Discard all administration equipment after use.

Anthemophilic Factor (Human), HT Profitate is supplied in single dose bottles with suitable volume of diluent. AHF activity, expressed in International Units (I. U.), is stated on the label of each contentrate bottle.

STORAGE
Antihemophilic Factor (Human), HT Profilate should be stored at temperatures between 2°-6°C. Do not treeze.

CAUTION
Federal (U.S.A.) law prohibits dispensing without a

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Antihemophilic Factor (Human) HTProfilate DryMethod

Factor VIII indicated for the treatment of hemophilia A. Manufacturing process designed to ensure patient safety.

- Contains no added preservative or stabilizer (such as heparin or albumin).
- Manufacturing process has been shown to inactivate 1 log of HTLV-111/LAV in approximately thirty minutes.
- Viral inactivation studies show dry process reduces the risk of transmitting human T-lymphotropic virus Type III/ lymphadenopathy-associated

virus (HTLV-III/LAV), the virus implicated as a possible causative agent of Acquired Immunodeficiency Syndrome (AIDS).

In-vitro studies confirm the manufacturing method's effectiveness in viral inactivation.

Virus	No. Logs Inactivated in Alpha Product
HTLV-III/LAV Sindbis	2.47 7.40
Vesicular Stomatitis Virus (VSV)	6.98

 It must, however, be pointed out that no manufacturing method has been shown to completely eliminate the risk of viral infactivity.

Reliable Performance

- Average in-vivo recovery 97.5%
- High specific activity.
- Wide range of assays: 250-1200 International Units per vial.
- Low isoagglutinin and blood group specific product also ovailable.
- Average half-life 12.6 hours.
- · High purity, low fibrinogen.
- Should be stored under refrigeration (2-8° C).

