For the use of a Registered Medical Practitioner or a ospital only Human Prothrombin Complex I.P., 250 IU Pro-throm

प्रो-थ्रोम For Intravenous Use Only

Pro-throm¹⁰ is a sterile freeze dried powder for injection of Human Prothrombin Complex 250 IU. It is prepared from large pools of human plasma obtained from healthy donors. The reconstituted solution of 10 ml of Human Prothrombin Complex 250 IU is intended for intravenous use only.

Pro-throm[™] is presented as powder containing Human Prothrombin complex. Each vial of the product contains the following IU of the human coagulation factors as below:

| Each vial contains: | | |
|---------------------|--------------------|-----|
| Human Coagulation F | actor II 175 - 412 | IU |
| Human Coagulation F | actor VII 40 - 260 | IU |
| Human Coagulation F | actor IX 250 | IU |
| Human Coagulation F | actor X 150 - 530 | IU |
| Protein C | 230 - 450 | IU |
| Protein S | 220 - 440 | IU |
| Heparin | 15 - 30 | IU |
| Total protein | Not more than 52 g | g/L |

Specific activity of Factor IX is ≥ 0.6 IU/mg protein. The activities of all coagulation factors as well as Protein C and S (antigen) have been tested according to the current valid international

WHO-Standards. PHARMACODYNAMIC PROPERTIES

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Pharmacotherapeutic group: antihaemorrhagics, blood coagulation Factors II, VII, IX and X incombination.
The coagulation factors II, VII, X and X, which are synthesized in the liver with the help of vitamin K, are commonly called the prothrombin
complex. In addition to the coagulation factors Proteins
Factor VII is the zymogen of the active serine protease Factor VIIa by which the extinsic pathway of blood coagulation factors II, VII, IX and X, which are synthesized in the liver with the help of vitamin K, are commoly called the prothrombin
complex. In addition to the coagulation factors Proteins
Factor VII is the zymogen of the active serine protease Factor VIIa by which the extinsic pathway of blood coagulation is initiated.
The
tissue thrombopatis factor-factor Factor VII complex transformed to thrombin is also of vital importance for platelet
function as a part of the primary haemostasis.
Isolated severe deficiency of Factor VII is one of the casue ableeding tendency due to impaired fibrin formation and
impaired primary haemostasis.
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impaired primary haemostasis.
Isolated very tare but in severe form they casue a bleeding tendency similar to that seen in classical hemophilia.
The further ingredients, the coagulation inhibitors Protein C and Protein S, are also synthesized in the liver. The biological activity of Protein
C is enforced by the cofactor Protein C deficiency is associated with an increased risk of thrombosis.
Acquired deficiency of accougulation factors occurs during treatment with vitamin K antagonists. If the deficiency
placetary is often or submit beeding tendency results, characterised by etroperional or cerebral bleeds rather than muscle and pr

 Posology

 Only general dosage guidelines aregiven below. Treatment should be initiated under the supervision of a physician experienced in the treatment of coagulation disorders. The dosage and duration of the substitution therapy depend on the indication for treatment, severity of the disorder, on the location and extent of bleeding and on the patient's clinical condition. The amount and the frequency of administration should be calculated on an individual patient basis. Dosage intervals must be adapted to the different circulating ball-lives of the respective coagulation factors in the prothrombin complex. Individual dosage requirements can only be identified on the basis of regular determinations of the individual patient basis. Dosage intervals must be adapted to the other entry of substitution therapy depend on the patient. In case of major surgical interventions, proceed the substitution therapy by prease of coagulation factors assays and/or global tests of the targeting surgivary dimensitions complex levels).

 Electing and perioperative prophytaxis of bleedings during virtamin K antagonist treatment.

 The dose will depend on the INR before treatment and the targeted INR. The pre-treatment INR should be masured as doseas possible to the time of dosing in order to calculate the appropriate dose of Pro-thorm¹ in the following table approximate doses (MIK) body weight of the reconstituted product and IU Factor IX/kg b.w.) required for normalization of INR (e.g. ≤ 1.3) at different initial INR levels are given.

 Imperiment NIR
 20-3.9
 40-6.0
 >6.0

 Approximate dose milky body weight
 1
 1
 2

| | 2.0 0.0 | 1.0 0.0 | . 0.0 | | |
|--|--------------------------|-----------------------------------|-----------------------|--|--|
| Approximate dose ml/kg body weight | 1 | 1.4 | 2 | | |
| Approximate dose IU (Factor IX)/ kg body weight | 25 | 35 | 50 | | |
| Dose is based onbody weight up to but not exceeding 100 kg. For patients weighing more than 100 kg, the maximum single dose (IU Factor IX) should therefore not exceed 2500 IU for an INR of 2.0–3.9, 3500 IU for an INR of 4.0–6.0 and 5000 IU for an INR of > 6.0. | | | | | |
| The correction of the vitamin K antagonist-induced impairment of haemostasis is commonly reached approximately 30 minutes after t | | | | | |
| injection. The simultaneous administration of vitamin K should be considered | ered in patients receivi | na Pro-throm [™] for ura | ent reversal of vitan | | |

Older population The posology and method of administration in older people (> 65 years) is equivalent to the general recommendations. Indications:

nent and perioperative prophylaxis of bleedings in acquired deficiency of the prothrombin complex coagulation factors, such as ccy caused by treatment with vitamin K antagonists, or in case of over dose of vitamin K antagonists, when rapid correction of the

deficiency is require enciency is required. Treatment and perioperative prophylaxis of bleedings in congenital deficiency of any of the vitamin K dependent coagulation factors wher unified specific coagulation factor products are not available.

Front Side

Back Side

Artwork No.: AW-047-02 Reason for revision : CBL/CCF/2020/0118 Supersedes No.: AW-047-01 Prepared by Reviewed by Approved by Department QA Production Regulatory Marketing Medical QA QA Sign Date Name Designation

Product Name: Pro-throm Leaflet Size: 100 x 220 mm Colour: Pantone Black 180420

Fold size: ~ 50 mm x ~ 27.5 mm No. of Fold : 4 Type of Paper / Board: Maplitho GSM of Paper: 50 gsm ±10 %

hod of administration GENERAL INSTRUCTIONS

The solution should be clear or slightly opalescent. After reconstitution, product should be inspected visually for particulate matter and

The solution should be clear or slightly opalescent. After reconstitution, product should be inspected visually for particulate matter and discoloration prior to administration. Do not use figle or precipitate is observed when reconstituted. For reconstitution and withdrawal procedures, asseptic technique must be maintained. The solutions that are cloudy or have deposits. Do not use if gel or precipitate is observed when reconstituted. For reconstitution and withdrawal procedures, asseptic technique must be maintained. The solution is to be used immediately, However, if it is not administrater immediately the reconstitutes quickly. After reconstitution with 10 mitsterie WFI. The product reconstitutes quickly after reconstitution is to be used immediately movever, if it is not administrater immediately the reconstitutes quickly after reconstitution. Care should be taken that no blood eministration. Care should be taken that no blood eministeration. The patient. In case more than one voil of Pro-throm[™] is required, it is possible to pool several vials of Pro-throm[™] for a single infusion via a commercially available infusion device.

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Any unused medicinal product or waste material should be disposed of in accordance with local requirements SPECIAL WARNINGS AND PRECAUTIONS FOR USE

SPECIAL WARNINGS AND PRECAUTIONS FOR USE The advice of a specialist experienced in the management of cogulation disorders should be sought. In patients with acquired deficiency of the vitamin K-dependent coagulation factors (e.g. as induced by treatment of vitamin K antagonists), Pro-throm[®] should only be used when rapid correction of the prothrombin complex levels is necessary, such as major bleedings or emergency surgery. In othercases, reduction of the dose of the vitamin K antagonist and/or administration of vitamin K is usually sufficient. Patients receiving a vitamin K antagonist may have an underlying hyper coaguable state and infusion of human prothrombin complex may recomplete their sufficient.

surgery. In othercases, reduction of the dose of the vitamin K antagonist and/or administration of vitamin K is aually sufficient. Patients receiving a vitamin K antagonist may have an underfyinghyper coaguable state and infusion of human prothrombin complex may exacerbate this. In congenital deficiency of any of the vitamin K- dependent factors, specific coaguable factor products should be used when available. If allergic or anaphylactic-type reactions occur, the administration of Pro-throm¹⁴ has to be stopped immediately (e.g. discontinue injection) and an appropriate treatment has to be initiated. Therapeutic measures depend on the kind and severity of the undesirable effect. The current medical standards for shock treatment are to be observed. There is a risk of thrombosis or disseminated intravascular coagulation when patients, with either congential or acquired deficiency, are treated with human prothrombin complex should be observed. Because of the risk of thromboembolic complications, close monitoring should be exercised when administering Pro-throm¹⁴ to patients with a history of coronary heart disease or or disseminated intravascular coagulation, in patients with disseminated intravascular coagulation, it may accurrent by the patient at risk of thromboembolic complications, close monitoring should be exercised when administering Pro-throm¹⁴ to patients with a history of coronary heart disease or or disseminated intravascular coagulation or simulations, the potential benefit of treatment with Pro-throm¹⁴ should be weighed against the potential risk of subcomplex. The substitute the coagulation, its may inder cortain circumstances, be necessary to substitute the coagulation factors of the prothrombin complex. This substitution may, however, only be carried out after termination of the consumptive state (e.g. by treatment of the underlying cause, persistent tormalization in the antithrombin III level). Reversing vitamin K antagonists exposes patients to the thromboe emoloic risk of the underlying

ious 100 days).

previous 100 days). Nephrotic syndrome has been reported in single cases following attempted immune tolerance induction in haemophilia B patients with Factor IX inhibitors and a history of allergic reaction. No data are available regarding the use of Pro-throm¹⁴ in case of perinatal bleeding due to vitamin K deficiency in neonates. Pro-throm¹⁶ contains up to 460 mg sodium per 100 ml (approximately 200 mmol/L). It needs to be taken into consideration for patients on a controlled redium up to

controlled sodium diet.

CONTRAINDICATIONS Hypersensitivity to the active substance or to any of the excipients of this medicine. In the case of disseminated intravascular coagulation, prothrombin complex-preparations may only be applied after termination of the consumptive state. Known history of heparin-induced thrombocytopenia. Virus safety

Virus safety Standard measures to prevent infections resulting from the use of medicinal products prepared from human blood or plasma include selection of donors, screening of individual donations and plasma pools for specific markers of infection and the inclusion of effective manufacturing steps for the inactivation/ removal of viruses. Despite this, when medicinal products prepared from human blood or plasma are administered, the possibility of transmitting infective agents can not be totally excluded. This also applies to unknown or emerging viruses and other pathogens. The manufacturing procedure incorporates two dedicated orthogonal viral clearance steps ensuring viral safety of the product. This includes solvent detergent treatment and dried heat treatment. The measures taken are considered effective for enveloped viruses such as human immunodeficiency virus (HIV), hepatitis B virus (HBV) and hepatitis C virus (HCV), and for the non-enveloped hepatitis. A and parvoirus B19 viruses. Only on being declared non reactive for HBSAg, HCV, HIV antibodies and negative for HIV, HCV, HBV by NAT the plasma is used for processing. The drug product is also tested for viral markers like HBV, HIV & HCV. Multiple chromatography steps have been incorporated for assurance of product safely. The process parameters, characterizations and final product quality are designed such, that they meet the regulatory requirements.

requirements. Appropriate vaccination (hepatitis A and B) should be considered for patients in regular/repeated receipt of human plasma-derived prothrombin provide the data state.

complex products. It is strongly recommended that every time that Pro-throm^{TW} is administered to a patient, the name and batch number of the product are recorded in order to maintain a link between the patient and the batch of the product. Interaction with other medicinal products and other forms of interaction Human prothrombin complex products neutralize the effect of vitamin K antagonist treatment, but no interactions with other medicinal products

are known. When perfo

are known. When performing clotting tests which are sensitive to heparin in patients receiving high doses of human prothrombin complex, the heparin as a constituent of the administered product must be taken in to account. FERTILITY, PREGNANCY AND LACTATION PERILIT: recordence and Execution Pregnancy and Breastleeding The safety of human prothrombin complex for use in human pregnancy and during lactation has not been established. Animal studies are not suitable to assess the safety with respect to pregnancy, embryonal / foetal development, parturition or post natal development. Therefore, human prothrombin complex should be used during pregnancy and lactation only if clearly indicated. E-utility. Fertility No fertility data are available. POSSIBLE SIDE EFFECTS

 POSSIBLE SIDE EFFECTS

 Allergic or anaphylactic reactions have been uncommonly observed, including severe anaphylactic reactions.

 Replacement threapy may lead to the formation of circulating antibodies inhibiting one or more of the human prothombin complex factors. If such inhibitors occur, the condition will manifest itself as a poor clinical response. In such cases, it isrecommended to contact a specialized haemophilic careations have been observed in patients with antibodies to Factors contained in the drug. Increase in body temperature has been commonly observed.

 There is a risk of thromboembolic episodes following the administration of human prothrombin complex.

 PACKING UNIT

 Injection is supplied as sterile freeze dried powder form in a single dose vial.

 SHELLIFE

 24 months from the manufacturing date.

 Do not use after expiry date methode on label.

 Store between 2^C cand 8^{-C}. Do not freeze.

 AW-047-02 STORAGE CONDITION Store between 2°C and 8°C. Do not freaze. Store in airtight container and protect from light. Report suspected adverse reaction at: Hemofluidsafety@intaspharma.com Date of preparation : 18-Apr-2020 Marcíf.

Manufactured and Marketed by: INTAS INTAS PHARMACEUTICALS LTD.

ige: Matoda, Taluka: Sanand, nedabad-382213, Gujarat, (INDIA)

l of use vary server une receent 2000 IU for an INR of 2.0–39, 3500 IU for an INR of 4.0–6.0 and 55000 IU for an INR of 7.6.0.
 The correction of the vitamin K natagonist-tudicad impairment of haemostatis is commonly reached approximately 30 minutes after the injection. The simultaneous administration of vitamin K should be considered in patients receiving Pro-throm¹⁴ for urgent reversal of vitamin K natagonist-tudicated impairment of haemostatis is commonly reached approximately 30 minutes after the injection. The simultaneous administration of vitamin K analysis treatment is not supported by clinical data and therefore not recommendation.
 These recommendations are based on data from clinical studies with a limited number of subjects. Recovery and the duration ofeffeet may vary, therefore monitoring of INR during treatment is mandatory.
 Bleedings and perioperative prophytaxis in congenital deficiency of any of the vitamin K dependent coagulation factors when specific coagulation factor available.
 The calculation of the required dosage of prothrombin complex concentrate is based on data from clinical studies:

 11 U of Factor IV per kg body weight raises the plasma Factor IV activity by 1.7% (0.017 IU/mi) of normal
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