GENERIC NAME Human Normal Immunoglobulin for Intravenous Administration EP 5%, Solution

QUALITATIVE AND QUANTITATIVE COMPOSITION

DOSAGE FORM AND STRENGTH
Human normal immunoglobulin solution is for intravenous (I.V.) use only.
It is supplied as 100 mL (5 g) vial.

CLINICAL PARTICULARS THERAPEUTIC INDICATION

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in whom intramuscular (Mi) injections are contraindicated.

Secondary Immunodeficiency (SIDI) Syndromes
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- Secondary Immunodeficiency (SIDI) Syndromes
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- Secondary Immunogammaglobulinaemia in patients with B-cell chronic lymphocytic leukaemia (CLL) or multiple myeloma (MM) with recurrent infections.

- Paediatric HIV-I infection who have bacterial infections: HIV-infected infants and children with hypogammaglobulinaemia (IgG <400 mg/dL) should receive IVIG (400 mg/kg once every 2–4 weeks) to

Allogenic Bone marrow transplantation (BMT)
In adults and children undergoing BMT, IVIG can be used to decrease the risk of infections (e.g., septicemia), interstitial pneumonia of infectious or idiopathic etiologies, and acute graft-ve

Wilding by used for the treatment of chronic intermentary of the treatment of the treatment

In y preservatives.

Prior to initiation of IVIG infusion, ensure that patients are not volume depleted and are adequately hydrated.
Individualize the rate of infusion based on the preparation and individual patient requirements.
In general, in patients receiving infliant doses of IVIG or switching from one IVIG preparation to another, initiate the infusion rate at the lower end of the recommended range and increase to technical desired several infliasons at an intermediate influsion rate.

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Infusion ratie: 0.01 = 0.02 mL kg/min, for the first 30 mutes preverably using museur-purpose.

Irrespective of blood group, it can be transferred to all recipients.

Primary immunodeficiency Syndrome
As there are significant differences in a lifetime of the group and amount of immunoglobulin therapy may vary from patient to patient.

As there are significant differences in a lifetime of the Go among patients with primary humoral immunodeficiencies, the frequency and amount of immunoglobulin therapy may vary from patient to patient.

As the order of the primary from the control of the group of of the gro

that IVIG liquid be initially infused at infusion rates stated below, at least until the physician has had adequate experience with a given patient.

dt be at risk for developing renal dysfunction or thromboembolic events, administer IVIG liquid at the minimum infusion rate practicable, not to exceed 0.07 mL/kg (3.3 mg/kg)/minute

or an experience of the property of the property

Kawasaki Diseasor a cute phase, AHA, AAP, and ACCP recommend a single dose of 2 g/kg of IV/G given in conjunction with aspirin (80–100 mg/kg daily for up to 14 days, then 1–5 mg/kg once daily for each easily for the second of the second of

Prevention of Serious Infections in HIV-Infected Individuals Infants and children with hypogammaglobulinemia (IgG <400 mg/dL): ACIP, AAP, CDC, NIH, and other experts recommend 400 mg/kg of IVIG once every 2—4 weeks.

mm

Indication	Dose
Replacement therapy in primary immunodeficiency syndromes	Starting dose: 0.3 - 0.6 g/kg followed every 3 -4 weeks adjusted to achieve desired trough serum IgG concentration and clinical response.
Replacement therapy in secondary immunodeficiency syndromes	0.2 - 0.4 g/kg, every 3 - 4 weeks adjusted to achieve desired trough serum IgG concentration and clinical response
Kawasaki syndrome	2 g/kg in one dose in association with acetylsalicylic acid or 1.6 - 2 g/kg in several doses for 2 - 5 days in association with acetylsalicylic acid
Idiopathic thrombocytopenic purpura	0.2- 0.4 g/kg for 5 days or 0.8 - 1 g.kg on day 1, possibly repeated once with in three days.
B-cell Chronic lymphocytic Leukemia	Recommended dose is 0.4 g/kg every 3 - 4 weeks.
Paediatric HIV-I infection	0.2 – 0.4 g/kg every 2 – 4 weeks.
Allogenic bone marrow transplantation: (1) Treatment of infection and prophylaxis of graft versus host disease (2) Persistent lack of antibody production	0.5 g/kg every week from day -7 up to three months after transplantation.Individualize dosage to maintain trough serum IgG concentrations exceeding 400–500 mg/dL; monitor trough serum IgG concentrations approximately every 2 weeks. 0.5 g/kg every month until antibody levels return to normal.
Guillain-Barre syndrome	0.4 g/kg /d for 5 days
Chronic inflammatory demyelinating	Initially loading dose of 2 g/kg (40 mL/kg) given in divided doses over 2 to 4 consecutive day.Maintenance infusion of 1 g/kg (20 mL/kg) administered over 1 day or divided into two doses of 0.5 g/kg (10 mL/kg) given on 2 consecutive days, every three weeks.

polyneuropaury

USEIN SPECIAL POPULATION

Pregnancy

Regnancy category C.

Askinal reproduction studies have not been conducted with intravenous immunoglobulin (V/Cs). It is also not known whether intravenous immunoglobulin can cause fetal harm when administered to a nereonant woman or can affect reproduction capacity. There is the possibility of parvovirus B19 infection due to administration of this drug. In case of infection, fetal disorder such as abortion, fetal hydrops, and the pregnant woman only if clearly needed.

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Acute hypersensitivity reaction to corn; this product containing IgA.

Acute hypersensitivity reaction to corn; this product contains maltose derived from corn.

SPECIAL WARNINGS AND PRECAUTIONS FOR USE

Human normal immunoalchulus exhibites to the second of the secon

Human normal immunoglobulin solution is human plasma-derived Immunoglobulin preparation. Bring the medicine to room or body temperature before use. Sensitivity.

Sensitivity

Severe hypersensitivity reactions, including anaphylaxis, reported rarely following administration of Intravenous Immunoglobulin (IVIG), Intramuscular Immunoglobulin (IMIG) or Subcutaneous Immunoglobulin (ISCIG), Epinephrine and antihistamines should be readily available in case anaphylaxis or an anaphylactoid reaction occurs. It a severe hypersensitivity reaction occurs, discontinue immune globulin immediately and institute appropriate therapy as indicated. Igla deficient platents with antibodies against Igla are at greater risk of developing severe hypersensitivity and anaphylactoid reactions when administered IVIG (See CONTRAINDICATIONS). Patients known to have corn altergies should avoid using IVIG (See CONTRAINDICATIONS).

Influsion Desections
There is a list of reactions including fever, chills, nausea, and vomiting upon IV influsion. These reactions generally appear 30 minutes to 1 hour after initiation of the influsion and include flushing of the farm forther season in the chest, chills, fever, dizziness, nausea, vomiting, diaphoresis, and hypotension or hypertension. Closely monitor for adverse reactions throughout the influsion since these reactions Indicate the second sec

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cition, acute renal failure, osmotic nephrosis, and death reported in patients receiving immune globulin. Patients at increased risk for acute renal failure include those with any degree of cition, acute renal failure, osmotic mellitus, volume depletion, sepsis, or paraproteimenis, those receiving concomitant nephrotosic drugs, and/or those >65 sens ring.

The patients are not volume depleted and are adequately hydrated prior to administration of IVIG. Always use lowest decide dosage at the himinum concomitation available and at practicable rate of infusion, especially in patients at increased risk for acute renal failure. Assess urine output and renal function including blood curse more almost of continuing the patients of the patien

to this of appropriate ment value and appropriate in the properties of the propriation of

Report all infections thought possibly to have been transmitted by immune globulin preparations to the manufacturer.

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Thrombotic Effects

Thrombotic events (e.g., chest pain, MI, CHF, cerebral infarction, ischemic encephalopathy, severe headache requiring hospitalization, pulmonary embolism, retinal vein occlusion, peripheral venor thromboss), including some fatalities, reported in patients receiving IVIG. IVIG-induced alterations of blood rheology (e.g., glatelet activation, increased blood viscosity) and infusion-retain output cerebrovascular disease, conomary aftery disease, coagulation or hypercoagulable disorders (e.g., factor V Leichon) of immobilization, advanced age, obesity, disbet mellitus, acquired or inherited thrombotic disorder, previous thrombotic or thrombotic event, or known or suspected hyperviscosity, and/or those receiving estrogen-containing products may be increased risk. Weigh potential instance and immune globulin is better and laplatents in whoman globulin is being considered.

Prior to immune globulin sherapy, carefully evaluate patients with thrombotic risk factors (e.g., those with advanced age, hyperfension, cerebrovascular disease, CAD, diabetes mellitus, high serum leve of a monocloral protein, a history of proteologic amonocloral patients with thrombotic risk factors (e.g., those with advanced age, hyperfension, cerebrovascular disease, CAD, diabetes mellitus, high serum leve of a monocloral protein, a history of proteologic and patients with thrombotic risk factors (e.g., those with advanced age, hyperfension, cerebrovascular disease, CAD, diabetes mellitus, high serum leve of a monocloral agent monocloral agent

be performed to avoid exacerbating on-going hemolysis.
elop subsequent to immune globulin therapy due to enhanced RBC sequestration and/or intravascular RBC destruction.

following the administration. Hypeproteinemia, Increased Viscosity, and Hyponatremia Hypeproteinemia, increased serum viscosity, and hyponatremia may occur in patients receiving IVIG. The hyponatremia is likely to be pseudohyponatremia, as demonstrated by decreased calculat serum csmolality or elevated osmolargap. If hyponatremia occurs, it is critical to distinguish true hyponatremia from pseudohyponatremia. Treatment aimed at decreasing serum free water in patients with pseudohyponatremia may lead to volur depletion, a further increase in serum viscosity, and may predispose to thromboembolic events.

mens (1 q/kg daily for 1-2 days) used for treatment of chronic ITP are not recommended in individuals with expanded fluid volumes or when fluid volume may be a co

High-dose IVIs regiments (1 grag pairs or 1 cares) used to examine the factor of the latest strip. Blood Blucose Testing
IVIG preparations that contain maltose may cause falsely elevated results in blood glucose determinations with tests that use nonspecific methods based on glucose dehydrogenas
pyrrodoquinolinequinone (CDH-POC) or glucose-dye oxidoreductase. This has resulted in the inappropriate administration of insulin, resulting in life-threatening hypoglycemia. Also, cases of true
hypoglycemia may go untreated if the hypoglycemic state is masked by falsely elevated glucose-readings. Accordingly, when administering IVIG, the measurement of blood glucose must be done with
glucose-specific method. The product information of the blood glucose testing system, including that of the test strips, should be carefully reviewed to determine if the system is appropriate for use will
maltose-containing parenteral products.

Admixture of Intravenous immunoglobulin with other drugs and intravenous solutions have not been evaluated. It is recommended that intravenous immunoglobulin liquid be administered separate from other drugs or medications which the patient may be receiving. The product should not be mixed with IVIG from other manufacturers.

The influsion lime may be flushed before and after administration of intravenous immunoglobulin with either normal saline or 5% dextrose in water. Various passively transferred antibodies

SIRABLE EFFECTS

In severe drug reactions may be related to the rate of infusion. Possible adverse reactions with human normal immunoglobulin solution are listed below. In severe drug reactions reported in a 5% of clinical trial subjects occurring during or within 48 hours of an intension were headache, nausea, chills, asthenia (fatigue), pyrexia, up in an jam, diamthen, back pain, hyperhidrosis, and flushing, in post-marketing surveillance, serious adverse reactions reported with intravenous immunoglobulin were anaphylaxis, acute remained in the control of the control

Blood and lymphatic system disorders: Leukopenia, haemolytic anaemia, pancytopenia, leukopenia, hemolysi

Renal and urinary disorders: Acute renal failure
General disorders and administration site conditions: Fatigue, injection site reaction, pyrexia, chills, chest pain, hot flush, flushing, hyperhidrosis, malais

Investigations: Hepatic enzymes increased, blood glucose false positive

PHARMACODYNAMIC PROPERTIES

IVIG, human intravenous immunoglobulin, provides a broad spectrum of opsonic and neutralizing IgG antibodies against a wide variety of bacterial and viral agents reflecting the IgG activity found in the second of the provided in IVIG provided in IVIG

PHARMACOKINETIC PROPERTIES
Peak levels of IgG are reached immediately after infusion of IVIG in patients with primary immunodeficiency syndrome. Following infusion, IVIG products show a biphasic decay curve. The initial (a phase is characterized by an immediate post-initial initial ini

NONCLINICAL PROPERTIES
ANIMAL TOXICOLOGY OR PHARMACOLOGY
Being human plasma-derived proteins, safety testing in animals is not particularly relevant to correlate the safety of use in man. Moreover, as these human plasma proteins are more imm

A the same almost relationship. Receated dose toxicity testing is impractic

PRODUCT SAFETY
Collected blood plasma which used in manufacturing of IVIG, screened for the mandatory infectious diseases. Only on being declared negative to HBsAg, HIV I & II antibodies, HCV RNA and antibodies
and the production of the proposition of the production of the producti

mean reduction factor

≥ 10.42 ≥ 8.18 ≥ 7.01

SHELF-LIFE
Three years from the date of manufacture. Do not use it after expiry.
PACKAGING INFORMATION
Container & Closure: USP Type-I clear glass vial with Bromobutly rubber stopper
VIVG is supplied as %s solution containing 5 g of Human Normal Immunoglobulin per 100 mlfor intravenous a
STORAGE AND HANDING INSTRUCTIONS
Store at +2° (Dr. of 8°C.
Partially used vials should be discarded.
Do not freeze.

rotect from light.

Manufactured and Marketed by:

INTAS PHARMACEUTICALS LTD.

AW-130-00

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**Front Side Back Side** 

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