## Rx Only ulin 5%, I.P./E.P. GLOBUCEL

### (5 % solution of Huma '5 g/ mai Immur

DESCRIPTION DESCRIPTION Globuce@ is a sterile and solvent-detergent (SiD) treated preparation of highly purified Immunoglobulin G (IgG) intended for intravenous use. It is prepared from the large pools of the human plasma obtained from the healthy donors. Each 100 mL of Globuce@ laso helps to prevent or modify certain infectious diseases in susceptible individuals. Globuce@ is manufactured by the cold ethanol fractionation portexital. Globuce@ laso helps to prevent or modify certain infectious diseases in susceptible individuals. Globuce@ is manufactured by the cold ethanol fractionation process followed by PEG (Polyethylene Glyco) treatment & Utrafilitation. All plasma used in the preparation are also tested for antibody to human immunodeficiency vincs (AnL-HTV 12) and not show serologic evidence of hepatitis B surface antigen (HBAs), All donor units used in the preparation are also tested for antibody to human immunodeficiency vincs (AnL-HTV 12) and

# antibody to Hepatitis C (Anti-HCV). VIRAL CLEARANCE/INACTIVATION DATA:

VIRAL CLEARANCE/INACTIVATION DATA: A number of prevailons are taken to ensure the viral safety of plasma derived products such as donor screening and plasma screening. The validation study on virus inactivation and/or removal has been performed on 2 steps of the production process viz. Fraction II extraction EOA precipitation step and solvent and detergent treatment step. The effectiveness of these steps to removal or inactivate virus from the product is evaluation through virus spiking experiments. Residual viral titres were determined by viral infectivity by TCID<sub>2</sub> assay. The results are calculated and expressed as logarithm in base 10. The reduction factor is parameter which evaluates the ratio between viral titre sample at the beginning and at the end of the viral inactivation or elimination process. The viral reduction data (in log<sub>w</sub>) from these experiments are summarized in Table 1. Table 1. Viral Log<sub>w</sub>. Clearance Factor during Globucel (5%) manufacturing process Viral Log Reduction 1 init Envalormed Virus Non-enveloped Virus

V Lipid Enveloped Viru Hepatitis B virus BHV/PRV Non-enveloped Virus Hepatitis A virus Parvovirus B19 HAV PPV Hepatitis C virus BVDV HIV HIV-I Virus Inactivation Step Average Reduction Factor: Fraction II extraction EXOH precipitation Average Reduction Factor: SID Treatment step Overall Reduction Factor Abbreviation: HIV: Human Immunodeficiency Virus; B Treatment: Solvent-detergent treatment; LRF: Log., Rec >5.21 >5.46 >10.67 >5.45 2.89 >5.85 >7.47 >11.62 >7.47

The percentage of IgG subclasses is appr CLINICAL PHARMACOLOGY ately 66.95% IgG1, 27.87% IgG2, 3.97% IgG3 and 1.21% IgG4

Pharmacodynamics Solbouedle, 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 ound in the donor population. It has an IgG subclass distribution similar to that of native human plasma. IgG antibodies contained in IVIG provide passive immunity by increasing an individual's mitbody titer and angien-antibody reaction optications diversity in the donor susceptible individuals. Adequate doses of IVIG can restore abnormally low IgG level to the normal range. The role of these antibodies and mechanism of action of IgG in different diseases has not been fully elucidated. *Pharmarchinatics* 

The monitor length of the of these tempolates and mechanism of adult on go in uniferent diseases into item into adulto. Planmacokitenetics in the of these tempolates and mechanism of adult of go in uniferent diseases into item into adulto. Planmacokitenetics are reached immediately after infusion of IVIG in patients with primary immunodeficiency syndrome. Following infusion, IVIG products show a biphasic decay curve. The init (i) phase is characterized by an immediate post-infusion peak in serum IgG and is followed by rapid decay due to equilibration between the plasma and extravascular fulid compartments is approximately half is partitioned in the extravascular space. After approximately 3-5 days, equilibrium is reached between the intra and extravascular compartments. The second (i) phase is characterized by a slower and constain rate of decay. As a class, IgG survives longer in vivo than other serum proteins. Peak levels of IgG are reached within 30 minutes after an intraven infusion of IVIG. Half-life of IgG in individuals with normal serum IgG concentrations is around 18–25 days while it is 12-45 days in patients with immunodeficiencies. The half-life of IgG can vary considerably th person to person, however. In particular, high serum concentrations of IgG and hypermetabolism associated with fever and infection have been seen to coincide with a shortend half-life of I IgG and IgG-complexes are broken down in cells of the reticuloendohelial system. INDICATIONS & USAGE Immunoglobuling preparations are indicated in several clinical conditions. An approved list of clinical conditions where Globucel® is indicated is as under:

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Primary IntrancedFictors (PID) Syndromes
Replacement therapy to promote passive innumity: the following PID syndromes can be treated with intravenous replacement of IgG and are considered well established:
Common variable innumodeficiency
VID Syndromes
VISKetAdditic syndrome
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Secondary Immunodeficiencity (ID) Syndromestate contained and a conta

IgG can also be used as replacement therapy in:
Secondary hypogammaglobulmaemia in patients with B-cell chronic lymphocytic leukaemia (CLL) or multiple myeloma (MM) with recurrent infections.
Secondary hypogammaglobulmaemia in patients with B-cell chronic lymphocytic leukaemia (CLL) or multiple myeloma (MM) with recurrent infections.
Readward MY-L infection with a patient infections.
WG is used in conjunction with aspirin therapy for initial reatment of the acute phase of Kawasaki disease
Approximately 241% of nationer with Kampani CLL)

Kawasaki Syndrome VIG is used in conjunction with taspirin therapy for initial treatment of the acute phase of Kawasaki disease. Approximately 210% of patients with Kawasaki disease fail to respond to initial treatment with IVIG and aspirin therapy and have persistent fever or recurrent fever after an initial afebrile period. Retreatment with IVIG (within 24-48 hours of persistent or recrudescent fever) and continued aspirin therapy usually is recommended for these patients. Idiopathic Thrombocytopenic Purpura Indicated for the treatment of acute or chronic (e.g., >6 months duration) Idiopathic thrombocytopenic Purpura. Allogeneic borne marrow transplantation 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 rardwaresu-chemic fleasee.

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 graft-versus-host disease. Guillain-Barre syndrome IVIG initiated within 2 weeks of symptom onset appears to be as effective as plasma exchange. Chronic Inflammatory Demyelinating Polyneuropathy (CIDP) IVIG may be used for the treatment of chronic inflammatory demyelinating polyneuropathy to improve neuromuscular disability and impairment and for maintenance therapy to prevent reli DOSAGE AND ADMINISTRATION Desing Corpetifications

ing Considerations Intravenously use only. Globucel® liquid should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Do not use if turbid and/or disc

 For infravenously use only.

 Globuce® liquid should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Do not use if turbid and/or discoloration is observed.

 Globuce® liquid must not be mixed with other medicinal products or administrated simultaneously with other intravenous preparation in the same infusion set. Do not mix with intravenous immunoglobulin products from other manufacturers.

 Globuce® liquid must not be mixed with other medicinal products or administration. Any bottle that has been opened should be used promptly within one hour. Partially used bottles should be discarded since this drug does not contain any preservatives.

 Individualize the rate of influion based on the preparation and individual patient requirements.
 In individualize the rate of influion based on the preparation and individual patient requirements.

 In ingeneral, in patients received five or switching from one IVG greparation to another, initiate the infusion rate at the lower end of the recommended range and increase to the maximum recommended rate only after the patient has tolerated several influsions at an intermediate influsion rate.

 Is not addition of IVG influsion in patients received on or other weight, concontain an epitorboxic medications, or over the age of 65.

 Assure that patients are only during the patient has tolerated severally using influsion pump; increase to maximum 0.06 mL/kg/min, from others 30 ministration.

 Insign rate: 0.01 - 0.02 mL/kg/min, for the first 30 minutes preferably using influsion pump; increase to maximum 0.06 mL/kg/min, if no adverse reactions are observed.

 Primary Immunodeff

For patients judged to be <u>at risk</u> for developing reas dysumment or exercise the date to identify maximum safe dose, concentration, and the second approximation of the date to identify maximum safe dose, concentration, and the second approximation of the date to identify maximum safe dose, concentration, and the second approximation of the date to identify maximum safe dose, concentration, and the date to identify maximum safe dose, concentration, and the date to identify maximum safe dose, concentration, and the date to identify maximum safe dose, concentration, and the date to identify maximum safe dose of 2 g/kg of IVIG given in conjunction with aspirin (80–100 mg/kg daily for up to 14 days, then 1–5 mg/kg once daily for 6.4 weeks), initiate as soon as possible (optimally within 7–10 days of disease ones). If there is no response (i.e., fever parsists or recurs 236 hours after initial IVIG dose), retreatment with another single dose of 2 g/kg of IVIG (given in the date to identify maximum safe dose). If there is no response (i.e., fever parsists or recurs 236 hours after initial IVIG dose), retreatment with another single dose of 2 g/kg of IVIG (given within 2–4.4 hours of persistent or recrudescent fever) and continued aspirin therapy is recommended. (diopathic Thrombocytopenic Purpura (TP) For induction therapy, usual dosage is 200-400 mg/kg once daily for 5 consecutive days. In acute childhood ITP, if an initial platelet count response to the first 2 doses is adequate (30,000–60000mm/), discontinue therapy attentiate 4.000 mg/kg once daily for 5 downg/kg as a single maintenance infusion. If an adequate response does not occur, increase the maintenance dose to 800–1000 mg/kg of IGIV once every 2–4 weeks. **Moximum of Serious Influctions in HIV-fifectod Individuals** Initial maximum distributionia (IgG =400 mg/kg). ACIP, AAP, CDC, NIH, and other experts recommend 400 mg/kg of IGIV once every 2–4 weeks. **Moximum Series Mark and Mark and ACIP**, AAP, CDC, NIH, and other experts recommend 400 mg/kg of IGIV on

Table 2. Dosage recommendation for human intravenous immunoglobulin	
No.Indication	Dose
<ol> <li>Replacement therapy in primary immunodeficiency syndromes</li> </ol>	Starting dose: 0.3 - 0.6 g/kg followed every 3 -4 weeks adjusted to achieve desired trough serum IgG concentration and clinical response.
2 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
3 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
4 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.
5 B-cell Chronic lymphocytic leakaemia	Recommended dose is 0.4 g/kg every 3 - 4 weeks.
6 Paediatric HIV-I infection	0.2 – 0.4 g/kg every 2 – 4 weeks.
<ul> <li>7 Allogenic bone marrow transplantation:</li> <li>(1) Treatment of infection and prophy- laxis of graft versus host disease</li> </ul>	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.
(2) Persistent lack of antibody production	0.5 g/kg every month until antibody levels return to normal.
8 Guillain-Barre syndrome	0.4 g/kg /d for 5 days

9 Chronic inflammatory demyelinating polyneuropathy administered over 1 day or divided into two doses of 0.5 g/kg (10 mL/kg) given on 2 consecutive day. Maintenance influsion 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. USE IN SPECIAL POPULATION

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ediatric Use afety and efficacy of intravenous immunoglobulin have not been established in children under 2 years of age. Intravenous immunoglobulin was evaluated in 11 pediatric subjects (age range 6 16 years). There were no obvious differences observed between adults and pediatric subjects with respect to pharmacokinetics, efficacy and safety. No pediatric specific dose requirements ere necessary to achieve the desired serum IgG levels.

encessary to achieve the desired serum IgG levels. **Latric Use** ents > 56 years of age may be at increased risk for developing certain adverse reactions such as thromboembolic events and acute renal failure (See Warnings and Precautions). only 4 genitatic patients (> 65 years) were enrolled, a number insufficient to determine whether geniatic patients respond differently from younger subjects. In these 4 patients

issues were observed. CONTRAINDICATIONS Globucel is contraindicated in individuals who have had anaphylactic or severe systemic reactions to immunoglobulin or any ingredients in the formulation. Epinephrine should be available for Globucel is contraindicated in individuals who have had anaphylactic or severe systemic reactions to immunoglobulin or any ingredients in the formulation. Epinephrine should be available for

Glouce is contraindicated in individuals who nave had anaphylactic or severe systemic reactions to immunoglocum or any ingredients in the formulation, Epinephnne should be available for immediate treatment of an anaphylactic reaction if loccurs. Globuced® is contraindicated in individuals with selective [gA deficiency or [gA deficiency with antibodies against IgA, since these individuals may have antibodies to IgA (or develop antibodies following administration of Globuced®) or other blood products containing IgA. Acute hypersensitivity reaction to com; this product contains maltose derived from corn. WARNINGS AND PRECAUTIONS

WARKings and Precentions Sensitivity Severe hypersensitivity reactions, including anaphylaxis, reported rarely following administration of Intravenous Immunoglobulin (IVIG), Intramuscular Immunoglobulin (IVIG) or Subcutaneous Immunoglobulin (SIGI). Epinephrine and antihistamines should be readily available in case anaphylaxis or an anaphylacibid reaction occurs. If a severe hypersensitivity reaction occurs, discontinue immune globulin immediately and institute appropriate therapy as indicated. IgA deficient patients with antibidies against IgA are at greater risk of developing severe hypersensitivity and anaphylacibid reactions when administered Globucel® (See CONTRAINDICATIONS). Patients known to have corn allergies should avoid using Globucel (See CONTRAINDICATIONS). Influeion Reactions

discontinue function translated and insistered Globucele (See CONTRAINDICATIONS). Patients known to have corn allergies should avou using disconting translated in analyhidation freactions when administered Globucele (See CONTRAINDICATIONS). Patients who have not previously received immune globulin therapy, patients who are being switched to another preparation of mmune globulin, and those who have not received immune globulin within the preceding 8 weeks. These reactions generally appear 30 minutes to 1 hour after initiation of the infusion and include flushing the face. globules in the control to shore the reactions are reactions and include flushing in the Pard of Initia, fever, diztrates, anasea, onvailing, diaphoresis, and hypotension or hypertension. Closely monitor for adverse reactions throughout the infusion since these reactions may rarely lead to shock. WIG may cause a precipitous fail in BP and clinical manifestations of anaphylaxis, which appear to be related to the rate of IVIG infusion; do not exceed the recommended rate of infusion. If fushing, changes in BP or pulse, or other infusion soccur, siow or temporarily stop the infusion. In some cases when symptoms subside promptly, the infusion may be resumed at a rate that is comfortable for the patient. Stop infusion immediately if anaphylaxis or other severe reactions occur.

Renal Effects Renal dysfunction, 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 preexisting renal insufficiency, diabetes mellitus, volume depletion, sepsis, or paraproteinemia, those receiving concurnant nephrotoxic drugs; and/or those >65 years of age. To minimize risk of acute renal failure, ensure that guitents are not volume depleted and are adequately hydrated prior to administration of IVIG. Always use lowest effective dosage at the minimum concentration available and at the minimum practicable rate of infusion, especially in patients at increased risk for acute renal failure. Assess urine output and renal function including blood urea nitrogen (BUN) serum creatinine, prior to and at appropriate intervals during therapy with IVIG, especially in patients considered at increased risk for acute renal failure.

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considered. Prior to immune globulin therapy, carefully evaluate patients with thrombotic risk factors (e.g., those with advanced age, hypertension, cerebrovascular disease, CAD, diabetes mellitus, high serum levels of a monoclonal protein, a history of prolonged immobilization (e.g., bed-bound), and/or a history of thrombotic episodes). Because of potential increased risk of thrombosis, consider baseline assessment of blood viscosity in patients at risk for hyperviscosity (e.g., those with cryoglobulins, fasting chylomicronemia/markedly high triglycerides, or monoclonal gammopathies).

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volume overload High-dose IVIG regimens (1 g/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 cor DRUG INTERACTIONS

DRUG INTERACTIONS
Admixtures of intravenous immunoglobulin with other drugs and intravenous solutions have not been evaluated. It is recommended that intravenous immunoglobulin liquid be administered separately from other drugs or medications which the patient may be receiving. The product should not be mixed with IGVIs from other manufacturers.
The infusion line may be flushed before and after administration of intravenous immunoglobulin liquid be administered separately from other manufacturers.
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The infusion line may be flushed before and after administration of intravenous immunoglobulin liquid be administered in the results of services, many be an other manufacturers.
Antibodies in intravenous immunoglobulin (IVIG) may interfere with the response to line viral vaccines, including measies, many, and rubella virus vaccine live, or poliovirus vaccine live or administration of administration of line viral vaccines, including measies, line line of IVIG) may interfere administration due administration of line viral vaccines, including measies, line line or administration of each with vaccine live, phold vaccine live oral, rotavirus vaccine live, vaccine live, or poliovirus vaccine live oral, administration of line viral vaccines, including measies, line line oral, the value oral, the viral vaccine live, statis administration of line viral vaccines, including measies vaccine administration of response to influence vaccine.

New Versions should be informed of recent therapy with IVIGs, so that administration of live viral vaccines, including measies vaccine abroprintely degred 3 or more months from the time of IVIG
ADVERSE REACTIONS

administration: in the case of meases, mis mipaliment may persist for up to 1 year. Interfore patients receiving meases vacche shouth have mer anticody status checked. **AVERSE REACTONS**The most common diverse reactions reported in ≥ 5% of clinical trial subjects occurring during or within 48 hours of an infusion were headache, nausea, chills, asthenia (faltigue), pyrexia, upper adominal pain, diarrhea, back pain, hyperhidrosis, and flushing. In post-marketing surveillance, serious adverse reactions reported with infravenous immunoglobulin were anaphylaxis, acute renal failure, myccardial infraction, cerebral vascular accident, transient ischemic attack, deep vein thrombosis, pulmorany embolism, aseptic meninglis, acute hemotysis, and TRALI. The following adverse reactions have been identified during post-supportal use of ING products. Elecases these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or to establish a causal relationship to IVIG products. **Blood and tympatic system disorders:** Livupersensitivity, anaphylactic shock, anaphylactic reaction, angioneurotic cedema, face cedema **Metabolic and unifficiant disorders:** Livupersensitivity, anaphylactic shock, anaphylactic reaction, angioneurotic cedema, face cedema **Metabolic and unifficiant disorders:** Livupersensitivity, anaphylactic shock, anaphylactic meaning, and yotages, anaphylactic sedema, face of post-diverse teachers. **Psychiatric disorders:** Livupersensitivity, anaphylactic medinoling agentic minima, distributes, and nave the disorders.

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 Nervous system disorders: Headache, cerebrovascular accident, meningitis aseptic, migraine, dizzness, paraesthesia, coma, loss of consciousness, seizures, tremors
 Cardiac disorders: Hyocardial infarction, tachycardia, palpitations, cardiac arrest, thromboembolism
 Vascular disorders: Hypotension, thrombosis, peripheral circulatory failure, hypotension, vascular collapse
 Respiratory, thoracic and mediastinal disorders: Respiratory failure, pulmonary embolism, pulmonary oedema, bronchospasm, dyspneea, cough, Apnea, Acute Respiratory Distress
 Syndrome (ARDS), Transitions Realed Acute Lung Injuny (TRALL), vanois, hypoxemia
 Gastrointestinal disorders: Nausea, vomiting, diarrhoea, abdominal pain, hepatic dysfunction
 Skin and subculaneous tissue dissue discuers: Eczema, urticaria, rash, rash erythematous, dermatitis, pruritus, alopecia, Steven-Johnson syndrome, epidermolysis, erythema multiforme,
 bulous dermatitis

Syndrome (ARDS). Translusion Related Acute Lung Injury (TRALI), cyanosis, hypoxemia Gastrointestinal disorders: Nausea, vomiting, diarrhoea, abdominal pain, hepatic dysfunction Skin and subcutaneous tissue disorders: Eczema, urticaria, rash, rash erythematous, dermattils, pruntus, alopecia, Steven-Johnson syndrome, epidermoly bulious dermattils MusculosAetedal and connective tissue disorders: Back pain, arthraigia, myalgia, pain in extremity 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, malaise Investigations: Hepatic enzymes increased, blood glucose false positive OVERDOSACE Overdose may lead to fluid overload and hyperviscosity. Patients at particular risk of complications of fluid overload and hyperviscosity include elderly patients an impatiment.

Note ay lead to fluid overload and hyperviscosity. Patients at particular risk of complications of fluid overload and hyperviscosity include elderly patients and in patients with renal or cardiac

Unclusion may according to the second s Patient should report any adverse effect like decreased urine output, weight gain, fluid retention or shortness of breaths to their consulting physician. HOW SUPPLIED Globuce® is supplied as 5% solution in single dose containing 5 g of Human Normal Immunoglobulin per 100 mL for intravenous administration. Do not use if the solut any particulate matters observed.

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Globuder is supplied as 5 % solution in single dose container containing 5 g of Human Normal Immunoglobulin per 100 mL for Intravenous adminis any particulate matters observed. STORE BETWEEN 2: C TO 8\*C. DO NOT ADMINISTER AFTER MORE THAN 4 HOURS OF OPENING THE CONTAINER AND ANY REMMANT PORTIONS TO BE DISCARDED. DEVIOT FREEZE: DO NOT USE IF THE SOLUTION IS TURBID OR ANY PARTICULATE MATTERS OBSERVED. STORE IN THE ORIGINAL CONTAINER TO PROTECT FROM LIGHT. STORE IN THE ORIGINAL CONTAINER TO PROTECT FROM LIGHT. EXPIRY Two years from the date of manufacture. Do not use the product after expiry date. MANUFACTURE INFORMATION SK Chemicals

IMPORTED AND MARKETED BY Colestal Biologicals Ltd. Piot No. 496/1/J&B, Sarkhej Bavla Highway, Village: Matoda, Taluka : Sanand, District: Ahmedabad 382 210, Gujarat, India Ins-55-161-5 Subsidiary of:

Intas Blopharmaceuticals Ltd. Plot No. 423/P/A, Sarkhej Bavla Highway, Village : Matoda, Taluka : Sanand, District : Ahmedabad 382 213, Gujarat, India.

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