

Division: Pharmacy Policy	Subject: State of Florida's Agency for Health Care Administration's Prior Authorization Criteria
Original Development Date: Original Effective Date:	
Revision Date:	June 6, 2013, June 19, 2014, November 18, 2014, April 21, 2016, July 20, 2017, September 10, 2020, October 2, 2020, January 13, 2021, September 28, 2021, December 8, 2021

Immune Globulins- IVIG and SCIG

Florida Medicaid Prescribed Drug Services requires prior authorization for all Immune Globulin (IVIG and SCIG) claims.

GENERAL NOTES ON COVERAGE:

Florida Medicaid covers immune globulin therapy that is medically necessary and proven effective for treatment of specific humoral immunodeficiencies and certain covered conditions (listed below).

- The use of immune globulin therapy (including dosage, frequency, site of administration, and duration of therapy) must be clinically appropriate and supported by evidence-based literature.
- Adjustment(s) of dosage, frequency, site of administration, and duration of therapy must be reasonable and appropriate based on condition and severity, alternative available treatments, and previous response to immune globulin therapy.
- The use of immune globulin therapy will not be approved for any use that is considered investigational, is unproven and/or is not supported by evidence-based literature.

GENERAL ELIGIBILITY CRITERIA:

Medically necessary immune globulin is authorized when General Eligibility Criteria (below) and relevant Condition-Specific Criteria are met:

- 1. Medical record documentation confirms the recipient has been definitively diagnosed (by an appropriate specialist) with one of the Covered Conditions listed below;
- 2. The diagnosis is confirmed by evidence-based diagnostic criteria (supported by peer-reviewed, published literature) and supportive testing, and clearly documented in clinical notes;
- 3. The recipient is closely followed by the prescribing specialist, and treatment response has clearly defined endpoints to measure effectiveness;
- 4. The use (including requested frequency and dosage) of immunoglobulin is supported by evidence-based literature.

LENGTH OF AUTHORIZATION:

Varies per indication, please refer to chart.

CLINICAL NOTES:

Immune globulin therapy is derived from the pooled plasma of thousands of donors and contains primarily (\geq 98 %) human immunoglobulin G (IgG) with trace amounts of IgA and IgM. The products differ by route of administration (intravenous (IV) or subcutaneous (SC)), specific titers of each IgG subclass, viral inactivation processes, and additives such as sucrose and sodium. While all immune globulins have comparable efficacy in the treatment of immune deficiencies, the products are not interchangeable. Selection of product should take into consideration various patient factors including diagnosis, past history and individual comorbidities.

Florida Medicaid will cover immune globulin therapy for the following conditions based on specified requirements:



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1. Alloimmune Conditions

- a. Fetal alloimmune thrombocytopenia (FAIT)
- b. Neonatal alloimmune thrombocytopenia (NAIT)
- c. Neonatal hemochromatosis
- d. Post-transfusion purpura

2. Autoimmune Disorders

- a. Acquired red cell aplasia
- b. Autoimmune Hemolytic Anemia
- c. Autoimmune mucocutaneous blistering diseases
 - i. Pemphigus vulgaris
 - ii. Pemphigus foliaceus
 - iii. Bullous pemphigoid
 - iv. Mucous membrane pemphigoid
 - v. Epidermolysis bullosa acquisita
- d. Autoimmune Neutropenia
- e. Immune or idiopathic thrombocytopenic purpura (ITP)
- f. Kawasaki Disease
- g. Lambert-Eaton myasthenic syndrome

3. Collagen-vascular diseases

a. Dermatomyositis

4. Immunodeficiency Disorders or Diseases caused by Immunodeficiency Disorders

- a. HIV-associated thrombocytopenia, pediatric or adult
- b. Pediatric Human Immunodeficiency Virus (HIV) Infection
- c. Primary Humoral Immunodeficiency Syndromes
 - i. CVID (Common Variable Immunodeficiency)
 - ii.Congenital agammaglobulinemia
 - iii.Hyper IgM syndromes
 - iv. Hypogammaglobulinemia
 - v.IgM (X-linked Immunodeficiency with Hyperimmunoglobulin)
 - vi.Immunodeficiency with thymoma (Good syndrome)
 - vii.SCID (Severe Combined Immunodeficiency)
 - viii.Selective IgG subclass deficiencies
 - ix. Wiscott-Aldrich Syndrome
 - x.X-linked Agammaglobulinemia

5. Infectious

- a. Enteroviral meningoencephalitis
- b. Parvovirus B19 infection, chronic, with severe anemia
- c. Staphylococcal toxic shock syndrome
- d. Toxic epidermal necrolysis/Stevens Johnson syndrome
- e. Toxic shock syndrome or toxic necrotizing fascitis due to group A streptococcus



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6. Malignancies

- a. B-cell chronic lymphocytic leukemia (CLL)
- b. Hematological malignancy patients who are immunosuppressed
- c. Multiple Myeloma
- d. Bone marrow transplant
- e. Paraneoplastic opsoclonus-myoclonus-ataxia associated with neuroblastoma

7. Neurological Disorders

- a. Chronic Inflammatory Demyelinating Polyneuropathy
- b. Guillain-Barré' Syndrome
- c. Multifocal motor neuropathy
- d. Myasthenia Gravis
- e. Opsoclonus Myoclonus Syndrome
- f. Polymyositis
- g. Rasmussen's encephalitis
- h. Relapsing-Remitting Multiple Sclerosis

8. Transplantation

- a. Renal transplantation from live donor with ABO incompatibility or positive crossmatch
- b. Solid organ transplant recipients who are iatrogenically immunosuppressed to reduce risk of recurrent bacterial or viral infections
- c. Solid organ transplantation recipients prior to transplant to suppress anti-human leukocyte antigens (HLA) antibodies
- d. Solid organ transplant recipients for treatment of antibody mediated rejection of solid organ transplants
- e. Stem cell or bone marrow transplant recipients receiving an allogeneic or syngeneic transplant.

Condition	Indications
Autoimmune hemolytic anemia,	Warm-type autoimmune hemolytic anemia that does not respond to corticosteroids or
refractory	splenectomy, or those with contraindications to these treatments
	Initial Approval : 5 weeks
Autoimmune Mucocutaneous	1. The diagnosis has been proven by biopsy and confirmed by pathology report; AND
Blistering Diseases-pemphigus	2. The condition is rapidly progressing, extensive or debilitating; AND
vulgaris, pemphigus foliaceus,	3. Corticosteroids, immuno-suppressive agents have failed or the patient has
bullous pemphigoid, mucous	experienced significant complications from standard treatment, such as diabetes or
membrane pemphigoid,	steroid-induced osteoporosis.
epidermolysis bullosa acquisita	Initial Approval: 6 months
Bacterial infection in HIV-infected	Consistent with recommendations of the Working Group on Antiretroviral Therapy of
children	the National Pediatric HIV Resource Center immune globulin is considered medically
	necessary in children with HIV-infection who meet any of the following criteria:
	1. Those with hypogammaglobulinemia, i.e., serum IgG concentration less than 250
	mg/dL;
	2. Those with recurrent serious bacterial infections, i.e., defined as two or more
	infections such as bacteremia, meningitis, or pneumonia in a 1-year period;



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	 Those who fail to form antibodies to common antigens, such as measles, pneumococcal, and/or Haemophilus influenzae type b vaccine; Those living in areas where measles is highly prevalent and who have not developed an antibody response after two doses of measles, mumps, and rubella virus vaccine live; Single dose for HIV-infected children who are exposed to measles; HIV-infected children with chronic bronchiectasis that is suboptimally responsive to antimicrobial and pulmonary therapy. Initial Approval: 1 year
Chronic Inflammatory Demyelinating Polyneuropathy (CIDP)	Symmetric or focal neurologic deficits with slowly progressive or relapsing course over 2 months or longer (with neurophysiological abnormalities). Note: A meta-analysis comparing the efficacy if immune globulin, plasma exchange, and oral glucocorticoids found equivalence between all three, at least within the first 6 weeks of therapy (Van Schaik et al, 2002). Immune globulin is considered under accepted guidelines as the preferred treatment, particularly in children, when there is difficulty with venous access for plasmapheresis, and those susceptible to the complications of long-term corticosteroid therapy (Orange et al, 2006). Persons typically respond to immune globulin or plasma exchange within the first several weeks of treatment and may demonstrate sustained improvement for many weeks or months. Relapses may require periodic isolated treatments with a single dose of immune globulin or single plasma exchange. If a person responds successfully to infrequent booster treatments of either immune globulin or plasma exchange, it is considered medically necessary to prescribe maintenance therapy with immune globulin to prevent relapse, rather than adding corticosteroids or other immunosuppressants. Initial Approval: 3 months
Chronic Lymphocytic Leukemia	CLL patients with IgG level less than 600 mg/dL; AND
(CLL)	 One severe bacterial infection within preceding 6 months or 2 or more bacterial infections in 1 year; OR Evidence of specific antibody deficiency. Initial Approval: 1 year
Dermatomyositis, Polymyositis (includes juvenile)	Patients presenting at least one item from the 1st criterion (skin lesions) and four items from the 2nd through 9th criteria are said to have dermatomyositis. Patients presenting no items from the 1st criterion and at least four items from the 2nd through 9th criteria are said to have polymyositis. 1. Skin lesions a. Heliotrope rash (red purple edematous erythema on the upper eyelid) b. Gottron's sign (red purple keratotic, atrophic erythema, or macules on the extensor surface of finger joints) c. Erythema on the extensor surface of extremity joints: slightly raised red purple erythema over elbows or knees 2. Proximal muscle weakness (upper or lower extremity and trunk) 3. Elevated serum CK (creatine kinase) or aldolase level 4. Muscle pain on grasping or spontaneous pain 5. Myogenic changes on EMG (short duration, polyphasic motor unit potentials with spontaneous fibrillation potentials) 6. Positive anti-Jo-1 (histadyl tRNA synthetase) antibody 7. Non-destructive arthritis or arthralgias



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	8. Systemic inflammatory signs (fever: more than 37°C at axilla, elevated serum CRP level or accelerated erythrocyte sedimentation rate (ESR) of more than 20 mm/h by the Westergren method)
	 Pathological findings compatible with inflammatory myositis (inflammatory infiltration of skeletal evidence of active regeneration may be seen) AND patient has severe active illness AND patient is intolerant or refractory to 1st and 2nd line therapies: 1st line therapy - Corticosteroids (e.g., prednisone); 2nd line therapy - Immunosuppressants (e.g., methotrexate, azathioprine, cyclophosphamide, and cyclosporine).
	Initial Approval: 1 year
Enteroviral meningocephalitis	In severe cases lacking other therapeutic options
E-4-1 All	Initial Approval: 6 months
Fetal Alloimmune	At 20 weeks or later of pregnancy, cordocentensis reveals fetal platelets less than 20 x
Thrombocytopenia (FAIT)	10 ³ /µL OR Mother has had provious programmy affected by EAIT
	Mother has had previous pregnancy affected by FAIT
Cuillain Dawré gunduama (CDS)	 Initial Approval: approval should cover the pregnancy term Severe GBS with significant weakness such as inability to stand or walk without aid,
Guillain Barré syndrome (GBS)	respiratory or bulbar weakness, or Miller-Fisher syndrome (MFS); AND
	2. The disorder has been diagnosed during the first 2 weeks of the illness; AND
	3. Immune globulin is initiated within one month of symptom onset. Note: Based on
	the 2003 American Academy of Neurology (AAN) guidelines, immune globulin
	should usually be initiated within 2 weeks and no longer than 4 weeks of onset of
	neuropathic symptoms.
	Initial Approval: 5 days
Hematopoietic Stem Cell	Prophylaxis in allogenic (related donor) or syngeneic (twin donor) transplant recipients
Transplant (HSCT) or Bone	within the first 100 days post-transplant
Marrow Transplant (BMT)	After 100 days post-transplant, for patients who are markedly hypogammaglobulinemic
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Marrow Transplant (DMT)	(IgG less than 400 mg/dL) who have a primary immunodeficiency disease or who have
Mattom Transhaut (DMT)	(IgG less than 400 mg/dL), who have a primary immunodeficiency disease, or who have
wattow transplant (DMT)	Epstein-Barr virus (EBV) or Respiratory Syncytial Virus (RSV) infection
wiaitow iranspiant (DMI)	Epstein-Barr virus (EBV) or Respiratory Syncytial Virus (RSV) infection Corticosteroid-resistant graft versus host disease (GVHD) in patients 20 years of age or
waitow Transpiant (DMT)	Epstein-Barr virus (EBV) or Respiratory Syncytial Virus (RSV) infection Corticosteroid-resistant graft versus host disease (GVHD) in patients 20 years of age or older in the first 100 days post-transplant and who are hypogammaglobinemic (IgG level
wantow Transplant (DMT)	Epstein-Barr virus (EBV) or Respiratory Syncytial Virus (RSV) infection Corticosteroid-resistant graft versus host disease (GVHD) in patients 20 years of age or older in the first 100 days post-transplant and who are hypogammaglobinemic (IgG level less than 400 mg/dL)
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HIV-associated thrombocytopenia-	Epstein-Barr virus (EBV) or Respiratory Syncytial Virus (RSV) infection Corticosteroid-resistant graft versus host disease (GVHD) in patients 20 years of age or older in the first 100 days post-transplant and who are hypogammaglobinemic (IgG level less than 400 mg/dL) Initial Approval: 1 year 1. Significant bleeding in thrombocytopenic patients or platelet count less than
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HIV-associated thrombocytopenia-	Epstein-Barr virus (EBV) or Respiratory Syncytial Virus (RSV) infection Corticosteroid-resistant graft versus host disease (GVHD) in patients 20 years of age or older in the first 100 days post-transplant and who are hypogammaglobinemic (IgG level less than 400 mg/dL) Initial Approval: 1 year 1. Significant bleeding in thrombocytopenic patients or platelet count less than 20,000/μL; AND 2. Failure of RhIG in Rh-positive patients.
HIV-associated thrombocytopenia-Adults	Epstein-Barr virus (EBV) or Respiratory Syncytial Virus (RSV) infection Corticosteroid-resistant graft versus host disease (GVHD) in patients 20 years of age or older in the first 100 days post-transplant and who are hypogammaglobinemic (IgG level less than 400 mg/dL) Initial Approval: 1 year 1. Significant bleeding in thrombocytopenic patients or platelet count less than 20,000/μL; AND 2. Failure of RhIG in Rh-positive patients. Initial Approval: 6 months
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HIV-associated thrombocytopenia-Adults	Epstein-Barr virus (EBV) or Respiratory Syncytial Virus (RSV) infection Corticosteroid-resistant graft versus host disease (GVHD) in patients 20 years of age or older in the first 100 days post-transplant and who are hypogammaglobinemic (IgG level less than 400 mg/dL) Initial Approval: 1 year 1. Significant bleeding in thrombocytopenic patients or platelet count less than 20,000/μL; AND 2. Failure of RhIG in Rh-positive patients. Initial Approval: 6 months Infants and children less than 13 years of age whose IgG level is less than 400 mg/dL; and
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HIV-associated thrombocytopenia-Adults HIV-associated thrombocytopenia-	Epstein-Barr virus (EBV) or Respiratory Syncytial Virus (RSV) infection Corticosteroid-resistant graft versus host disease (GVHD) in patients 20 years of age or older in the first 100 days post-transplant and who are hypogammaglobinemic (IgG level less than 400 mg/dL) Initial Approval: 1 year 1. Significant bleeding in thrombocytopenic patients or platelet count less than 20,000/µL; AND 2. Failure of RhIG in Rh-positive patients. Initial Approval: 6 months Infants and children less than 13 years of age whose IgG level is less than 400 mg/dL; and 1. Two or more bacterial infections in a 1-year period despite antibiotic chemoprophylaxis with TMP-SMZ or another active agent; OR
HIV-associated thrombocytopenia-Adults HIV-associated thrombocytopenia-	Epstein-Barr virus (EBV) or Respiratory Syncytial Virus (RSV) infection Corticosteroid-resistant graft versus host disease (GVHD) in patients 20 years of age or older in the first 100 days post-transplant and who are hypogammaglobinemic (IgG level less than 400 mg/dL) Initial Approval: 1 year 1. Significant bleeding in thrombocytopenic patients or platelet count less than 20,000/μL; AND 2. Failure of RhIG in Rh-positive patients. Initial Approval: 6 months Infants and children less than 13 years of age whose IgG level is less than 400 mg/dL; and 1. Two or more bacterial infections in a 1-year period despite antibiotic chemoprophylaxis with TMP-SMZ or another active agent; OR 2. Child has received 2 doses of measles vaccine and lives in a region with a high
HIV-associated thrombocytopenia-Adults HIV-associated thrombocytopenia-	Epstein-Barr virus (EBV) or Respiratory Syncytial Virus (RSV) infection Corticosteroid-resistant graft versus host disease (GVHD) in patients 20 years of age or older in the first 100 days post-transplant and who are hypogammaglobinemic (IgG level less than 400 mg/dL) Initial Approval: 1 year 1. Significant bleeding in thrombocytopenic patients or platelet count less than 20,000/μL; AND 2. Failure of RhIG in Rh-positive patients. Initial Approval: 6 months Infants and children less than 13 years of age whose IgG level is less than 400 mg/dL; and 1. Two or more bacterial infections in a 1-year period despite antibiotic chemoprophylaxis with TMP-SMZ or another active agent; OR 2. Child has received 2 doses of measles vaccine and lives in a region with a high prevalence of measles; OR
HIV-associated thrombocytopenia-Adults HIV-associated thrombocytopenia-	Epstein-Barr virus (EBV) or Respiratory Syncytial Virus (RSV) infection Corticosteroid-resistant graft versus host disease (GVHD) in patients 20 years of age or older in the first 100 days post-transplant and who are hypogammaglobinemic (IgG level less than 400 mg/dL) Initial Approval: 1 year 1. Significant bleeding in thrombocytopenic patients or platelet count less than 20,000/μL; AND 2. Failure of RhIG in Rh-positive patients. Initial Approval: 6 months Infants and children less than 13 years of age whose IgG level is less than 400 mg/dL; and 1. Two or more bacterial infections in a 1-year period despite antibiotic chemoprophylaxis with TMP-SMZ or another active agent; OR 2. Child has received 2 doses of measles vaccine and lives in a region with a high prevalence of measles; OR 3. Child has HIV-associated thrombocytopenia despite anti-retroviral therapy; OR
HIV-associated thrombocytopenia-Adults HIV-associated thrombocytopenia-	Epstein-Barr virus (EBV) or Respiratory Syncytial Virus (RSV) infection Corticosteroid-resistant graft versus host disease (GVHD) in patients 20 years of age or older in the first 100 days post-transplant and who are hypogammaglobinemic (IgG level less than 400 mg/dL) Initial Approval: 1 year 1. Significant bleeding in thrombocytopenic patients or platelet count less than 20,000/μL; AND 2. Failure of RhIG in Rh-positive patients. Initial Approval: 6 months Infants and children less than 13 years of age whose IgG level is less than 400 mg/dL; and 1. Two or more bacterial infections in a 1-year period despite antibiotic chemoprophylaxis with TMP-SMZ or another active agent; OR 2. Child has received 2 doses of measles vaccine and lives in a region with a high prevalence of measles; OR



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	5. CD4 cell count is greater than or equal to 200/mm ³
	Initial Approval: 1 year
Idiopathic (or Immune) Thrombocytopenic Purpura (ITP)- Adults	 Other causes of thrombocytopenia have been ruled out by history and peripheral smear; AND Patient is unresponsive to corticosteroid therapy; AND Requires management of acute bleeding due to severe thrombocytopenia (platelet counts less than 30,000/μL); OR To increase platelet counts prior to invasive major surgical procedures (e.g., splenectomy), OR To defer or avoid splenectomy; OR In members with severe thrombocytopenia (platelet counts less than 20,000/μL) considered to be at risk for intra-cerebral hemorrhage. Initial Approval: 5 days
Idiopathic (or Immune) Thrombocytopenic Purpura (ITP)- Pediatric	 Acute ITP: Immune globulin as initial therapy if platelet count less than 20,000/μL, especially when the patient has emergency bleeding or is at risk for severe life-threatening bleeding; OR Patients with severe thrombocytopenia (platelet counts less than 20,000/μL) considered to be at risk for intracranial hemorrhage
Idiopathic (or Immune) Thrombocytopenic Purpura, Chronic Refractory	 Age of 10 years or older; AND Duration of illness of greater than 6 months; AND No concurrent illness/disease explaining thrombocytopenia; AND Prior treatment with corticosteroids and splenectomy has failed OR patient is at high-risk for post-splenectomy sepsis. Initial Approval: 6 months
Immune Thrombocytopenic Purpura (ITP) in Pregnancy	 Refractory to steroids with platelet counts less than 10,000/μL in the 3rd trimester; OR Platelet counts less than 30,000/μL associated with bleeding before vaginal delivery or C-section; OR Pregnant women who have previously delivered infants with autoimmune thrombocytopenia; OR Pregnant women who have platelet counts less than 50,000/μL during the current pregnancy; OR Pregnant women with past history of splenectomy Initial Approval: Should correspond to pregnancy term
Immunosuppressed Patients	To prevent or modify recurrent bacterial or viral infections in patients with iatrogenically induced, or disease associated immunosuppression (IgG less than 400 mg/dL) with one of the following: 1. Solid organ transplants or extensive surgery with immunosuppression (Note: In particular, immune globulin may be medically necessary in persons undergoing



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	multiple courses of plasmapheresis as a treatment for allograft rejection or for other indications; these persons may receive immune globulin at the completion of therapy if their IgG level is less than 400 mg/dL); OR 2. Hematological malignancy; OR 3. Collagen-vascular disease. Initial Approval: 1 year
Kawasaki Disease (Mucocutaneous Lymph Node Syndrome [MCLS])	Diagnosis must be established no specific lab test diagnosis is established by meeting the following criteria: 1. Fever present for at least 5 days; AND 2. Four of the following 5 conditions are met: a. Mucous membrane changes such as a red tongue and dry fissured lips; b. Swelling of the hands and feet; c. Enlarged lymph nodes in the neck; d. Diffuse red rash covering most of the body; e. Redness of the eyes. Initial Approval: 1 year
Lambert-Eaton Myasthenic	No response to anti-cholinesterases and dalfampridine (Ampyra); AND
Syndrome (LEMS)	 Used as an alternative to plasma exchange if weakness is severe; OR When there is difficulty with venous access for plasmapheresis. Initial Approval: 3 months
Myasthenia Gravis	Treatment of acute myasthenic crisis with decompensation (respiratory failure, or disabling weakness requiring hospital admission); AND other treatments have been unsuccessful or are contraindicated (e.g., azathioprine, cyclosporine, and cyclophosphamide). Note: For management of acute myasthenic crises, immune globulin is administered over 2 to 5 days. Use of immune globulin as maintenance therapy is considered experimental and investigational. Initial Approval: 1 year
Multifocal Motor Neuropathy with Conduction Block	Progressive, symptomatic multifocal motor neuropathy that has been diagnosed on the basis of electrophysiologic findings that rule out other possible conditions that may not respond to immune globulin treatment Initial Approval: 1 year
Multiple Myeloma	 "Plateau Phase" multiple myeloma (greater than 3 months since diagnosis); AND IgG level less than 600 mg/dL; AND Two or more significant infections in last year or a single life-threatening infection; OR Evidence of specific antibody deficiency Initial Approval: 1 year
Multiple Sclerosis (MS)-Relapsing- Remitting (not primary or secondary progressive MS)	 Severe manifestations of relapsing-remitting MS (not primary or secondary progressive MS); AND Standard FDA approved therapies (i.e., interferons, glatiramer, etc) have failed, become intolerable, or are contraindicated Initial Approval: 1 year
Neonatal Hemochromatosis	Pregnant women who have a history of pregnancy ending with documented neonatal hemochromatosis (Note: Dosage should be 1 mg/kg weekly from the 18 th week until the end of pregnancy) Initial Approval: 6 months



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Neonatal Alloimmune	Thrombocytopenia (< 30,000/μL) AND	
Thrombocytopenia (NAIT)	Failure, intolerance, or contraindication to platelet transfusion	
	Initial Approval: 1 month	
Neuroblastoma associated	Opsoclonus-myoclonus-ataxia syndrome in patients diagnosed with neuroblastoma	
paraneoplastic opsoclonus-	Initial Approval: 6 months	
myoclonus-ataxia syndrome		
Opsoclonus-myoclonus	Last resort treatment for refractory opsoclonus-myoclonus	
	Initial Approval: 6 months	
Parvovirus B19 infection	Severe, refractory anemia with documented Parvo B19 (erythrovirus) viremia	
(Erythrovirus), Chronic with	Initial Approval: 3 months	
severe anemia (pure red cell		
aplasia)		
Post-transfusion purpura (PTP)	1. Decreased platelets (usually less than 10,000/μL); <i>AND</i>	
	2. Two to 14 days post-transfusion with bleeding.	
	Initial Approval: 5 days	
Primary Humoral	1. Agammaglobulinemia (total IgG less than 200 mg/dL or infants with BTK gene	
Immunodeficiencies:	and/or absence of B lymphocytes)); OR	
1. Selective IgM	2. Persistent hypogammaglobulinemia (total IgG less than 400 mg/dL or two standard	
Immunodeficiency	deviations below the mean for age) with recurrent bacterial infections and/or lack of	
2. Congenital hypogamma-	response to protein or polysaccharide antigens (inability to make IgG antibody	
globulinemia	against diphtheria and tetanus toxoids, pneumococcal polysaccharide vaccine, or	
3. Immunodeficiency with	both- see notes below):	
near/normal IgM (absent IgG,	a. Serum antibody titers to tetanus and/or diphtheria should be obtained prior	
IgA) – a.k.a. Hyper IgM	to immunization with diphtheria and/or tetanus vaccine and 3 to 4 weeks	
syndrome	after immunization. The protective level for diphtheria is 0.01 to 0.1	
4. Other deficiency of humoral	international units/mL and for tetanus greater than 0.1 international	
immunity	units/mL. If post vaccination titers are above these levels, the patients	
5. Combined immunodeficiency	response to protein antigens is normal	
disorders (e.g., X-SCID, jak3,	b. Serum antibody titers to pneumococcus should be measured prior to	
ZAP70, ADA, PNP, RAG	immunization and 4 to 6 weeks after immunization with polyvalent	
defects, Ataxia Telangiectasia,	pneumococcal polysaccharide vaccine (e.g., Pneumovax). A normal	
DiGeorge syndrome, common	response to pneumococcus for children from 24 months to 5 years of age is	
variable immunodeficiency)	a conversion of 50% or more of the serotypes tested. For persons aged	
	6 years of age and older, a normal response is defined as conversion of 70%	
	of the serotypes tested. A normal response for a single serotype present in a	
	pneumococcal vaccine is defined as the conversion from a non-protective	
	to a protective titer. A protective (normal or adequate) response to each	
	pneumococcal serotype is defined as a titer equal to or greater than 1.3	
	mcg/mL antibody. (Note: When reported, the conversion factor for	
	nanograms of antibody nitrogen per milliliter (ng N/mL) to antibody	
	micrograms per milliliter is as follows: 160 ng N/mL - 1.0 mcg/mL); or	
	3. Selective IgG subclass deficiencies (see criteria in section of selective IgG subclass deficiency below): OP	
	deficiency below); OR 4. Normal total IgG levels with severe polysaccharide non-responsiveness and	
	4. Normal total IgG levels with severe polysaccharide non-responsiveness and evidence of recurrent severe difficult-to-treat infections (e.g., recurrent otitis media,	
	bronchiectasis, recurrent infections requiring IV antibiotics, multiple antibiotic	
	oronomodasis, recurrent infections requiring TV antibiotics, multiple antibiotic	



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hypersensitivities, chronic or recurrent sinusitis) with a documented requirement for antibiotic therapy: a. Patient has unexplained recurrent or persistent severe bacterial infections despite adequate treatment, including all of the following: 1. Aggressive management of other conditions predisposing to recurrent sinopulmonary infections (e.g., asthma, allergic rhinitis);

- Prophylactic antibiotics;
- 3. Increased vigilance and appropriate antibiotic therapy for infections: and
- 4. Immunization with conjugate vaccines in patients who have not responded to polysaccharide vaccines.
- b. Serum antibody titers to pneumococcus should be measured prior to immunization and 4 to 6 weeks after immunization with polyvalent pneumococcal polysaccharide vaccine (e.g., Pneumovax); at least 14 polysaccharide antigens should be tested.
- Polysaccharide non-responsiveness is defined as lack of protective antibody titer (specific IgG antibody titer less than 1.3 mcg/ml) in greater than 70 % of antigens tested (more than 50 % in children aged 2 to 5 years).
- Further evidence of infection, including sinus and lung imaging, complete blood counts, C-reactive protein measurement, and erythrocyte sedimentation rate (ESR) determination, may be required to support the need for immune globulin supplementation.
- For children 12 years of age or younger with normal total IgG levels and severe polysaccharide nonresponsiveness, immune globulin should be discontinued, and the medical necessity of immune globulin should be reevaluated 1 year after initiating therapy and every 2 years thereafter by reassessing immune response to protein and polysaccharide antigens. Immune response should be re-evaluated at least 3 months after discontinuation of immune globulin. Immune globulin should also be discontinued at that time if the number and/or severity of infections have not been reduced, as not all persons with polysaccharide nonresponsiveness benefit from immune globulin.

The use of immune globulin may not be beneficial in certain secondary immunodeficiency states; correction of the underlying condition is the preferred approach.

Initial Approval: 1 year

For children whose symptoms do not improve with anti-epileptic drugs and Rasmussen Encephalitis corticosteroids **Initial Approval: 1 month**

Selective IgG Subclass Deficiency

- Deficiency of one or more IgG subclasses to levels less than 2 standard deviations below the age-specific mean (see table below). These levels should be assessed on at least two occasions while the patient is free of infections; AND
- Member has unexplained recurrent or persistent severe bacterial infections despite adequate treatment, including ALL the following:
 - Aggressive management of other conditions predisposing to recurrent sinopulmonary infections (e.g., asthma, allergic rhinitis);



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- b. Prophylactic antibiotics;
- c. Increased vigilance and appropriate antibiotic therapy for infections; and
- d. Immunization with conjugate vaccines in patients who have not responded to polysaccharide vaccines; **AND**
- 3. Member has demonstrated an inability to mount an adequate response to protein and polysaccharide antigens, as determined by the following criteria:
 - a. Member has documented inability to mount an antibody response to protein antigens: Serum antibody titers to tetanus and/or diphtheria should be obtained prior to immunization with diphtheria and/or tetanus vaccine and 3 to 4 weeks after immunization. An inadequate response is defined as a post vaccination titer less than 0.1 international units/mL for diphtheria, and 0.1 international units/mL or less for tetanus; and
 - b. Member has documented inability to mount an adequate antibody response to polysaccharide antigens. Serum antibody titers to at least 14 pneumococcus serotypes should be measured prior to immunization and 4 to 6 weeks after immunization with polyvalent pneumococcal polysaccharide vaccine (e.g., Pneumovax). An inadequate response is defined as lack of protective antibody titer (i.e., specific IgG concentration less than 1.3 mcg/mL) in at least 70 % of serotypes tested (in at least 50 % of serotypes tested in children aged 2 to 5 years)

<u>Note</u>: Response to polysaccharide antigens is not reliable in children less than 2 years of age.

4. In children 12 years of age or younger only, 1 year after initiating therapy, immune globulin should be discontinued and the medical necessity of immune globulin should be re-evaluated and every 2 years thereafter by re-assessing immune response to protein and polysaccharide antigens. Immune response should be re-evaluated at least 3 months after discontinuation of immune globulin. Immune globulin should also be discontinued at that time if the number and/or severity of infections have not been reduced, as not all persons with selective IgG subclass deficiencies benefit from immune globulin.

Staphylococcal Toxic Shock Syndrome Toxic epidermal necrolysis and Stevens-Johnson syndrome Toxic shock syndrome or toxic necrotizing fascitis due to group A streptococcus

Initial Approval: 1 year

Severe cases of toxic shock syndrome that have not responded to fluids and vasopressors **Initial Approval: 1 month**

Severe cases of toxic epidermal necrolysis and Stevens-Johnson syndrome

Initial Approval: 3 months

Patients who are sufficiently ill to require critical care unit support and have documented presence of fascitis and microbiological data consistent with invasive streptococcal infection (culture or Gram stain)

Initial Approval: 1 month



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The laboratory's own reference ranges should be used, where available. If the laboratory's reference ranges are not submitted with the immunoglobulin level results, the following standard reference ranges may be applied:

Normal Immuno	oglobulin L	evels (mg/dl)		Normal IgG	Subclass Level	s (mg/dl)		
AGE	IgA	IgG	IgM	AGE	IgG1	IgG2	IgG3	IgG4
1 - 2 mo	1 - 53	251 - 906	20 - 87	cord	435 - 1084	143 - 453	27 - 146	1 - 47
2 - 3 mo	3 - 47	206 - 601	17 - 105	0 - 3 mo	218 - 496	40 - 167	4 - 23	1 - 33
3 - 4 mo	4 - 73	176 - 581	24 - 101	3 - 6 mo	143 - 394	23 - 147	4 - 100	1 - 14
4 - 5 mo	8 - 84	172 - 814	33 - 108	6 - 9 mo	190 - 388	37 - 60	12 - 62	1 - 1
5 - 6 mo	8 - 68	215 - 704	35 - 102	9 mo - 3 yr	286 - 680	30 - 327	13 - 82	1 - 65
6 - 8 mo	11 - 90	217 - 904	34 - 125	3 - 5 yr	381 - 884	70 - 443	17 - 90	1 - 116
8 mo - 1 yr	16 - 84	294 - 1069	41 - 149	5 - 7 yr	292 - 816	83 - 513	8 - 111	1 - 121
1 - 2 yr	14 - 106	345 - 1213	43 - 173	7 - 9 yr	442 - 802	113 - 480	15 - 133	1 - 84
2 - 3 yr	14 - 123	424 - 1051	48 - 168	9 - 11 yr	456 - 938	163 - 513	26 - 113	1 - 121
3 - 4 yr	22 - 159	441 - 1135	47 - 200	11 - 13 yr	456 - 952	147 - 493	12 - 179	1 - 168
4 - 6 yr	25 - 154	463 - 1236	43 - 196	13 - 15 yr	347 - 993	140 - 440	23 - 117	1 - 183
6 - 9 yr	33 - 202	633 - 1280	48 - 207	15 yr & up	422 - 1292	117 - 747	41 - 129	1 - 291
9 - 11 yr	45 - 236	608 - 1572	52 - 242					
11 yr & up	70 - 312	639 - 1349	56 - 352					

DOSING AND ADMINISTRATION:

• Refer to product labeling at https://www.accessdata.fda.gov/scripts/cder/daf/



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Immune globulin therapy is considered experimental and investigational for any of the following conditions (alphabetical):

Hematologic/Oncologic	Immunologic	Infectious	Neurologic	Rheumatologic	Other Disorders
Disorders	Disorders	Disorders	Disorders	Disorders	
Acute lymphoblastic leukemia (ALL)	Cellular immunodeficiencies without IgG deficiencies	Chronic mucocutaneous candidiasis (CMCC)	Amyotrophic lateral sclerosis (ALS)	Behçet's syndrome	Adrenoleukodystrophy
Aplastic Anemia	Complement deficiencies	Chronic sinusitis	Demyelinating optic neuritis	Inclusion body myositis	Asthma
Diamond-Blackfan anemia	Selective IgA deficiency without IgG or IgG subclass deficiency, and impaired antibody response to vaccination	Lyme disease	Epilepsy	Rheumatoid arthritis	Atopic dermatitis
Red cell aplasia (except as noted above due to parvovirus in the setting of immunocompromise)		Post-infectious sequelae	Myasthenia gravis- chronic management	Scleroderma	Chronic fatigue syndrome
Thrombotic thrombocytopenic pupura		Recurrent otitis media	Primary progressive, secondary progressive or progressive relapsing Multiple Sclerosis	Systemic Lupus Erythematosus (SLE)	Cystic Fibrosis
Hemolytic uremia syndrome		Rheumatic fever	Pediatric autoimmune Neuropsychiatric Disorder associated with Streptococcal Infection (PANDAS),	Vasculitides other than Kawasaki Disease	Diabetes Mellitus
			Pediatric Acute- Onset Neuropsychiatric Syndrome (PANS)		Idiopathic environmental illness
			Alzheimer's Disease		Organ transplant- cellular rejection
			Autism		Recent onset dilated cardiomyopathy
					Recurrent fetal loss
					Recurrent Spontaneous Abortion or recurrent
					spontaneous pregnancy loss



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Brand of Immune Globulin	FDA Approved Indications
Asceniv (intravenous)	Primary humoral immunodeficiency
Bivigam (intravenous)	Primary humoral immunodeficiency
Carimune NF (intravenous)	Primary immunodeficiencies, immune thrombocytopenic purpura
Cutaquig (subcutaneous)	Primary humoral immunodeficiency
Cuvitru (subcutaneous)	Primary immunodeficiencies
Flebogamma (intravenous)	Primary immunodeficiencies, immune thrombocytopenic purpura (10%)
Gammagard liquid (intravenous or subcutaneous)	Primary immunodeficiencies, multifocal motor neuropathy
Gammagard S/D (intravenous)	Primary immunodeficiencies, B-cell Chronic Lymphocytic Leukemia,
	chronic idiopathic thrombocytopenic purpura, Kawasaki syndrome
Gammaked (intravenous or subcutaneous)	Primary immunodeficiencies, immune thrombocytopenic purpura,
	chronic inflammatory demyelinating polyneuropathy
Gammaplex (intravenous)	Primary immunodeficiencies, chronic immune thrombocytopenic
	purpura (10%)
Gammar-P I.V. (intravenous)	Primary immunodeficiencies
Gamunex-C (intravenous or subcutaneous)	Primary immunodeficiencies, immune thrombocytopenic purpura,
	chronic inflammatory demyelinating polyneuropathy
Hizentra (subcutaneous)	Primary immunodeficiencies
HyQvia (subcutaneous with recombinant human	Primary immunodeficiency in adults
hyaluronidase)	
Octagam (intravenous)	Primary immunodeficiencies, idiopathic thrombocytopenic purpura,
	dermatomyositis
Privigen (intravenous)	Primary immunodeficiencies, immune thrombocytopenic purpura
Xembify (subcutaneous)_	Primary immunodeficiencies

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