

Medical Policy Manual

Draft Revision Policy: Do Not Implement

Intravenous Immune Globulin (IVIG)

Alyglo™ (Immune Globulin Intravenous (Human)-stwk) Asceniv™ (Immune Globulin Intravenous (Human) - slra); Bivigam®; Flebogamma® DIF; Gammagard® Liquid; **Gammagard® Liquid ERC**; Gammagard® S/D; Gammaked™; Gammaplex®; Gamunex®-C; Octagam®; Panzyga® (Immune Globulin Intravenous (Human) - ifas); Privigen®; **Qivigy® (Immune Globulin Intravenous (Human) - kthm)**; Yimmugo® (Immune Globulin Intravenous (Human) - dira)

IMPORTANT REMINDER

We develop Medical Policies to provide guidance to Members and Providers. This Medical Policy relates only to the services or supplies described in it. The existence of a Medical Policy is not an authorization, certification, explanation of benefits or a contract for the service (or supply) that is referenced in the Medical Policy. For a determination of the benefits that a Member is entitled to receive under his or her health plan, the Member's health plan must be reviewed. If there is a conflict between the medical policy and a health plan or government program (e.g., TennCare), the express terms of the health plan or government program will govern.

The proposal is to add text/statements in red and to delete text/statements with strikethrough:

POLICY

INDICATIONS

The indications below including FDA-approved indications and compendial uses are considered a covered benefit provided that all the approval criteria are met and the member has no exclusions to the prescribed therapy.

FDA-Approved Indications

- Primary immunodeficiency
- Idiopathic thrombocytopenic purpura (ITP)
- Chronic inflammatory demyelinating polyneuropathy (CIDP)
- Multifocal motor neuropathy
- Kawasaki syndrome
- B-cell chronic lymphocytic leukemia (CLL)
- Dermatomyositis

Compendial Uses

- Prophylaxis of bacterial infections in pediatric human immunodeficiency virus (HIV) infection
- Bone marrow transplant (BMT)/hematopoietic stem cell transplant (HSCT)
- Polymyositis
- Myasthenia gravis
- Guillain-Barré syndrome
- Lambert-Eaton myasthenic syndrome
- Fetal/neonatal alloimmune thrombocytopenia
- Parvovirus B19-induced pure red cell aplasia
- Stiff-person syndrome
- Management of immune checkpoint inhibitor-related toxicities
- Acquired red cell aplasia
- Acute disseminated encephalomyelitis
- Autoimmune mucocutaneous blistering diseases



Medical Policy Manual

Draft Revision Policy: Do Not Implement

- Autoimmune hemolytic anemia
- Autoimmune neutropenia
- Birdshot retinochoroidopathy
- BK virus associated nephropathy
- Churg-Strauss Syndrome
- Enteroviral meningoencephalitis
- Hematophagocytic lymphohistiocytosis (HLH) or macrophage activation syndrome (MAS)
- Hemolytic disease of newborn
- HIV-associated thrombocytopenia
- Hyperimmunoglobulinemia E Syndrome
- Hypogammaglobulinemia from chimeric antigen receptor T (CAR-T) therapy
- Multiple myeloma
- Neonatal hemochromatosis, prophylaxis
- Opsoclonus-myoclonus
- Paraneoplastic **ospoclonus**-myoclonus ataxia associated with neuroblastoma
- **Pediatric Acute-onset Neuropsychiatric Syndrome (PANS)/Pediatric Autoimmune Neuropsychiatric Disorder Associated with Streptococcal Infections (PANDAS)**
- Post-transfusion purpura
- Rasmussen encephalitis
- Renal transplantation from a live donor with ABO incompatibility or positive cross match
- **Retinocochleocerebral vasculopathy, Central nervous system-predominant**
- Secondary immunosuppression associated with major surgery, hematological malignancy, major burns, and collagen-vascular diseases
- Solid organ transplantation, for allosensitized members
- Toxic epidermal necrolysis and Stevens-Johnson syndrome
- Toxic shock syndrome
- Systemic lupus erythematosus (SLE)
- Toxic necrotizing fasciitis due to group A streptococcus
- Measles (Rubeola) prophylaxis
- Tetanus treatment and prophylaxis
- Varicella prophylaxis

All other indications are considered experimental/investigational and not medically necessary.

DOCUMENTATION

The following information is necessary to initiate the prior authorization review:

Primary immunodeficiency

- Diagnostic test results
 - Copy of laboratory report with serum immunoglobulin levels: IgG, IgA, IgM, and IgG subclasses
 - Vaccine response to pneumococcal polysaccharide vaccine (post-vaccination Streptococcus pneumoniae antibody titers)
 - Pertinent genetic or molecular testing in members with a known genetic disorder
 - Copy of laboratory report with lymphocyte subset enumeration by flow cytometry
- IgG trough level for those continuing with IG therapy

Myasthenia gravis

- Clinical records describing standard treatments tried and failed

Medical Policy Manual

Draft Revision Policy: Do Not Implement

Secondary hypogammaglobulinemia (e.g., CLL, BMT/HSCT recipients)

- Copy of laboratory report with pre-treatment serum IgG level

Chronic inflammatory demyelinating polyneuropathy (CIDP) and multifocal motor neuropathy (MMN)

- Pre-treatment electrodiagnostic studies (electromyography [EMG] or nerve conduction studies [NCS])

Dermatomyositis and polymyositis

- Clinical records describing standard treatments tried and failed

Lambert-Eaton Myasthenic Syndrome (LEMS)

- Neurophysiology studies (e.g., electromyography)
- A positive anti- P/Q type voltage-gated calcium channel antibody test

Idiopathic thrombocytopenic purpura

- Laboratory report with pre-treatment/current platelet count
- Chronic/persistent ITP: copy of medical records supporting trial and failure with corticosteroid or anti-D therapy (unless contraindicated)

Parvovirus B19-indicated Pure Red Cell Aplasia (PRCA)

- Copy of test result confirming presence of parvovirus B19

Pediatric Acute-onset Neuropsychiatric Syndrome (PANS)/Pediatric Autoimmune Neuropsychiatric Disorder Associated with Streptococcal Infections (PANDAS)

- **Medical records confirming the diagnosis and previous treatment with systemic corticosteroids for those initiating the IG therapy**
- **Medical records documenting that other causes of symptoms have been ruled out**
- **Medical records documenting objective assessment of baseline symptoms**
- **Medical records documenting a clinical response for those continuing with IG therapy**

Stiff-person syndrome

- Anti-glutamic acid decarboxylase (GAD) antibody testing results
- Clinical records describing standard treatments tried and failed

Toxic shock syndrome or toxic necrotizing fasciitis due to group A streptococcus

- Documented presence of fasciitis (toxic necrotizing fasciitis due to group A streptococcus only)
- Microbiological data (culture or Gram stain)

COVERAGE CRITERIA

Primary Immunodeficiency

Initial authorization of 6 months may be granted for members with any of the following diagnoses:

- Severe combined immunodeficiency (SCID) or congenital agammaglobulinemia (e.g., X-linked or autosomal recessive agammaglobulinemia):
 - Diagnosis confirmed by genetic or molecular testing, or
 - Pretreatment IgG level < 200 mg/dL, or
 - Absence or very low number of T cells (CD3 T cells < 300/microliter) or the presence of maternal T cells in the circulation (SCID only)

Medical Policy Manual

Draft Revision Policy: Do Not Implement

- Wiskott-Aldrich syndrome, DiGeorge syndrome, or ataxia-telangiectasia (or other non-SCID combined immunodeficiency):
 - Diagnosis confirmed by genetic or molecular testing (if applicable), and
 - History of recurrent bacterial infections (e.g., pneumonia, otitis media, sinusitis, sepsis, gastrointestinal), and
 - Impaired antibody response to pneumococcal polysaccharide vaccine (see Appendix A)
- Common variable immunodeficiency (CVID):
 - Age 2 years or older, and
 - Other causes of immune deficiency have been excluded (e.g., drug induced, genetic disorders, infectious diseases such as HIV, malignancy), and
 - Pretreatment IgG level < 500 mg/dL or ≥ 2 SD below the mean for age, and
 - History of recurrent bacterial infections, and
 - Impaired antibody response to pneumococcal polysaccharide vaccine (see Appendix A)
- Hypogammaglobulinemia (unspecified), IgG subclass deficiency, selective IgA deficiency, selective IgM deficiency, or specific antibody deficiency:
 - History of recurrent bacterial infections, and
 - Impaired antibody response to pneumococcal polysaccharide vaccine (see Appendix A), and
 - Any of the following pre-treatment laboratory findings:
 - Hypogammaglobulinemia: IgG < 500 mg/dL or ≥ 2 SD below the mean for age
 - Selective IgA deficiency: IgA level < 7 mg/dL with normal IgG and IgM levels
 - Selective IgM deficiency: IgM level < 30 mg/dL with normal IgG and IgA levels
 - IgG subclass deficiency: IgG1, IgG2, or IgG3 ≥ 2 SD below mean for age assessed on at least 2 occasions; normal IgG (total) and IgM levels, normal/low IgA levels
 - Specific antibody deficiency: normal IgG, IgA and IgM levels
- Other predominant antibody deficiency disorders must meet all of the following:
 - History of recurrent bacterial infections, and
 - Impaired antibody response to pneumococcal polysaccharide vaccine (see Appendix A), and
 - A pre-treatment laboratory finding of hypogammaglobulinemia: IgG < 500 mg/dL or ≥ 2 SD below the mean for age
- Other combined immunodeficiency must meet all of the following:
 - Diagnosis confirmed by genetic or molecular testing (if applicable), and
 - History of recurrent bacterial infections (e.g., pneumonia, otitis media, sinusitis, sepsis, gastrointestinal), and
 - Impaired antibody response to pneumococcal polysaccharide vaccine (see Appendix A)

Re-authorization of 12 months may be granted when the following criteria are met:

- A reduction in the frequency of bacterial infections has been demonstrated since initiation of IG therapy, AND
- IgG trough levels are monitored at least yearly and maintained at or above the lower range of normal for age (when applicable for indication), OR
- The prescriber will re-evaluate the dose of IG and consider a dose adjustment (when appropriate).

Myasthenia Gravis

- Authorization of 1 month may be granted to members who are prescribed IG for worsening weakness, acute exacerbation, or in preparation for surgery.
 - Worsening weakness includes an increase in any of the following symptoms: diplopia, ptosis, blurred vision, difficulty speaking (dysarthria), difficulty swallowing (dysphagia), difficulty chewing, impaired respiratory status, fatigue, and limb weakness. Acute exacerbations include more severe swallowing difficulties and/or respiratory failure

Medical Policy Manual

Draft Revision Policy: Do Not Implement

- Pre-operative management (e.g., prior to thymectomy)
- Authorization of 6 months may be granted to members with refractory myasthenia gravis who have tried and failed 2 or more standard therapies (e.g., corticosteroids, azathioprine, cyclosporine, mycophenolate mofetil, rituximab).

Chronic Inflammatory Demyelinating Polyneuropathy (CIDP)

- Initial authorization of 3 months may be granted when the following criteria are met:
 - Disease course is progressive or relapsing/remitting for 2 months or longer
 - Moderate to severe functional disability
 - The diagnosis was confirmed by electrodiagnostic studies
- Re-authorization of 6 months may be granted when the following criteria are met:
 - Significant improvement in disability and maintenance of improvement since initiation of IG therapy
 - IG is being used at the lowest effective dose and frequency

Dermatomyositis or Polymyositis

- Initial authorization of 3 months may be granted when the following criteria are met:
 - Member has at least 4 of the following:
 - Proximal muscle weakness (upper or lower extremity and trunk)
 - Elevated serum creatine kinase (CK) or aldolase level
 - Muscle pain on grasping or spontaneous pain
 - Myogenic changes on EMG (short-duration, polyphasic motor unit potentials with spontaneous fibrillation potentials)
 - Positive for anti-synthetase antibodies (e.g., anti-Jo-1, also called histidyl tRNA synthetase)
 - Non-destructive arthritis or arthralgias
 - Systemic inflammatory signs (fever: more than 37°C at axilla, elevated serum CRP level or accelerated 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
 - Standard first-line treatments (corticosteroids) and second-line treatments (immunosuppressants) have been tried but were unsuccessful or not tolerated, or
 - Member is unable to receive standard first-line and second-line therapy because of a contraindication or other clinical reason.
- Re-authorization of 6 months may be granted when the following criterion is met:
 - Significant improvement in disability and maintenance of improvement since initiation of IG therapy

Idiopathic Thrombocytopenic Purpura ITP/(Immune Thrombocytopenia)

- Newly diagnosed ITP (diagnosed within the past 3 months) or initial therapy: authorization of 1 month may be granted when the following criteria are met:
 - Children (< 18 years of age)
 - Significant bleeding symptoms (mucosal bleeding or other moderate/severe bleeding) or
 - High risk for bleeding (see Appendix B), or
 - Rapid increase in platelets is required (e.g., surgery or procedure)
 - Adults (≥ 18 years of age)
 - Platelet count < 30,000/mcL, or
 - Platelet count < 50,000/mcL and significant bleeding symptoms, high risk for bleeding or rapid increase in platelets is required, and



Medical Policy Manual

Draft Revision Policy: Do Not Implement

- Corticosteroid therapy is contraindicated and IG will be used alone or IG will be used in combination with corticosteroid therapy
- Chronic/persistent ITP (≥ 3 months from diagnosis) or ITP unresponsive to first-line therapy: authorization of 6 months may be granted when the following criteria are met:
 - Platelet count $< 30,000/\text{mcL}$, or
 - Platelet count $< 50,000/\text{mcL}$ and significant bleeding symptoms, high risk for bleeding or rapid increase in platelets is required, and
 - Relapse after previous response to IG or inadequate response/intolerance/contraindication to corticosteroid or anti-D therapy
- Adults with refractory ITP after splenectomy: authorization of 6 months may be granted when either of the following criteria is met:
 - Platelet count $< 30,000/\text{mcL}$, or
 - Significant bleeding symptoms
- ITP in pregnant women: authorization through delivery may be granted to pregnant women with ITP.

The member's risk factor(s) for bleeding (see Appendix B) or reason requiring a rapid increase in platelets must be provided.

B-cell Chronic Lymphocytic Leukemia (CLL)

- Initial authorization of 6 months may be granted when all of the following criteria are met:
 - IG is prescribed for prophylaxis of bacterial infections.
 - Member has a history of recurrent sinopulmonary infections requiring intravenous antibiotics or hospitalization.
 - Member has a pretreatment serum IgG level $< 500 \text{ mg/dL}$.
- Re-authorization of 6 months may be granted when a reduction in the frequency of bacterial infections has been demonstrated since initiation of IG therapy.

Prophylaxis of Bacterial Infections in HIV-Infected Pediatric Patients

- Initial authorization of up to 6 months may be granted to pediatric members with HIV infection when any of the following criteria are met:
 - IG is prescribed for primary prophylaxis of bacterial infections and pretreatment serum IgG $< 400 \text{ mg/dL}$, or
 - IG is prescribed for secondary prophylaxis of bacterial infections for members with a history of recurrent bacterial infections (> 2 serious bacterial infections in a 1-year period), or
 - Member has failed to form antibodies to common antigens, such as measles, pneumococcal, and/or Haemophilus influenzae type b vaccine, or
 - Member lives in an area where measles is highly prevalent and who have not developed an antibody response after two doses of measles, mumps, and rubella virus vaccine live, or
 - Member has been exposed to measles and request is for a single dose, or
 - Member has chronic bronchiectasis that is suboptimally responsive to antimicrobial and pulmonary therapy
- Re-authorization of 6 months may be granted when a reduction in the frequency of bacterial infections has been demonstrated since initiation of IG therapy.

Bone Marrow Transplant/Hemopoietic Stem Cell Transplant (BMT/HSCT)

- Initial authorization of 6 months may be granted to members who are BMT/HSCT recipients when the following criteria are met:



Medical Policy Manual

Draft Revision Policy: Do Not Implement

- Therapy will be used to prevent the risk of acute graft-versus-host disease, associated interstitial pneumonia (infectious or idiopathic), septicemia, and other infections (e.g., cytomegalovirus infections [CMV], recurrent bacterial infection).
- Either of the following:
 - IG is requested within the first 100 days post-transplant.
 - Member has a pretreatment serum IgG < 400 mg/dL.
- Re-authorization of 6 months may be granted when a reduction in the frequency of bacterial infections has been demonstrated since initiation of IG therapy.

Multifocal Motor Neuropathy (MMN)

- Initial authorization of 3 months may be granted when the following criteria are met:
 - Member experienced progressive, multifocal, asymmetrical weakness without objective sensory loss in 2 or more nerves for at least 1 month
 - The diagnosis was confirmed by electrodiagnostic studies
- Re-authorization of 6 months may be granted when significant improvement in disability and maintenance of improvement have occurred since initiation of IG therapy

Guillain-Barre Syndrome (GBS)

Authorization of 1 month total may be granted for GBS when the following criteria are met:

- Member has severe disease with significant weakness (e.g., inability to stand or walk without aid, respiratory weakness)
- Onset of neurologic symptoms occurred less than 4 weeks from the anticipated start of therapy

Lambert-Eaton Myasthenic Syndrome (LEMS)

- Initial authorization of 6 months may be granted for LEMS when the following criteria are met:
 - Diagnosis has been confirmed by either of the following:
 - Neurophysiology studies (e.g., electromyography)
 - A positive anti- P/Q type voltage-gated calcium channel antibody test
 - Anticholinesterases (e.g., pyridostigmine) and amifampridine (e.g., 3,4-diaminopyridine phosphate, Firdapse) have been tried but were unsuccessful or not tolerated
 - Weakness is severe or there is difficulty with venous access for plasmapheresis
- Re-authorization of 6 months may be granted when member is responding to therapy (i.e., there is stability or improvement in symptoms relative to the natural course of LEMS).

Kawasaki Syndrome

Authorization of 1 month may be granted for pediatric members with Kawasaki syndrome.

Fetal/Neonatal Alloimmune Thrombocytopenia (F/NAIT)

Authorization of 6 months may be granted for treatment of F/NAIT.

Parvovirus B19-induced Pure Red Cell Aplasia (PRCA)

Authorization of 6 months may be granted for severe, refractory anemia associated with bone marrow suppression, with parvovirus B19 viremia.



Medical Policy Manual

Draft Revision Policy: Do Not Implement

Stiff-person Syndrome

Authorization of 6 months may be granted for stiff-person syndrome when the following criteria are met:

- Diagnosis has been confirmed by anti-glutamic acid decarboxylase (GAD) antibody testing
- Member had an inadequate response to first-line treatment (benzodiazepines and/or baclofen)

Management of Immune Checkpoint Inhibitor-Related Toxicities

Authorization of 1 month may be granted for management of immune checkpoint-inhibitor toxicities when all of the following criteria are met:

- Member has experienced a moderate or severe adverse event to a PD-1 or PD-L1 inhibitor (e.g., pembrolizumab, nivolumab, atezolizumab, avelumab, durvalumab)
- The offending medication has been held or discontinued
- Member experienced one or more of the following adverse events: myocarditis, bullous dermatitis, Stevens-Johnson syndrome, toxic epidermal necrolysis, pneumonitis, myasthenia gravis, peripheral neuropathy, encephalitis, transverse myelitis, severe inflammatory arthritis, Guillain-Barre syndrome, or steroid-refractory myalgias or myositis

Acquired Red Cell Aplasia

Authorization of 6 months may be granted for acquired red cell aplasia.

Acute Disseminated Encephalomyelitis

Authorization of 1 month may be granted for acute disseminated encephalomyelitis in members who have had an insufficient response or a contraindication to intravenous corticosteroid treatment.

Autoimmune Mucocutaneous Blistering Disease

Authorization of 6 months may be granted for autoimmune mucocutaneous blistering disease (includes pemphigus vulgaris, pemphigus foliaceus, bullous pemphigoid, mucous membrane pemphigoid, and epidermolysis bullosa acquisita) when the following criteria are met:

- Diagnosis has been proven by biopsy and confirmed by pathology report, and
- Condition is rapidly progressing, extensive or debilitating, and
- Member has failed or experienced significant complications (e.g., diabetes, steroid-induced osteoporosis) from standard treatment (corticosteroids, immunosuppressive agents).

Autoimmune Hemolytic Anemia

Authorization of 6 months may be granted for warm-type autoimmune hemolytic anemia in members who do not respond or have a contraindication to corticosteroids or splenectomy.

Autoimmune Neutropenia

Authorization of 6 months may be granted for autoimmune neutropenia where treatment with G-CSF (granulocyte colony stimulating factor) is not appropriate.

Birdshot Retinochoroidopathy



Medical Policy Manual

Draft Revision Policy: Do Not Implement

Authorization of 6 months may be granted for birdshot (vitiliginous) retinochoroidopathy that is not responsive to immunosuppressives (e.g., corticosteroids, cyclosporine).

BK Virus Associated Nephropathy

Authorization of 6 months may be granted for BK virus associated nephropathy.

Churg-Strauss Syndrome

Authorization of 6 months may be granted for severe, active Churg-Strauss syndrome as adjunctive therapy for members who have experienced failure, intolerance, or are contraindicated to other interventions.

Enteroviral Meningoencephalitis

Authorization of 6 months may be granted for severe cases of enteroviral meningoencephalitis.

Hematophagocytic Lymphohistiocytosis (HLH) or Macrophage Activation Syndrome (MAS)

Authorization of 6 months may be granted for treatment of hypogammaglobulinemia in HLH or MAS when total IgG is less than 400 mg/dL or two standard deviations below the mean for age.

Hemolytic Disease of Newborn

Authorization of 6 months may be granted for isoimmune hemolytic disease in neonates.

HIV-associated Thrombocytopenia

Authorization of 6 months may be granted for HIV-associated thrombocytopenia when the following criteria are met:

- Pediatric members with IgG < 400 mg/dL and one of the following:
 - 2 or more bacterial infections in a 1-year period despite antibiotic chemoprophylaxis with TMP-SMZ or another active agent, or
 - Received 2 doses of measles vaccine and lives in a region with a high prevalence of measles, or
 - HIV-associated thrombocytopenia despite anti-retroviral therapy, or
 - Chronic bronchiectasis that is suboptimally responsive to antimicrobial and pulmonary therapy, or
 - T4 cell count $\geq 200/\text{mm}^3$
- Adult members with significant bleeding, platelet count < 20,000/mcL, and failure of RhIG in Rh-positive patients

Hyperimmunoglobulinemia E Syndrome

Authorization of 6 months may be granted to treat severe eczema in hyperimmunoglobulinemia E syndrome.

Hypogammaglobulinemia from CAR-T therapy

Authorization of 6 months may be granted for members with IgG < 400 mg/dL receiving treatment with CAR-T therapy (including but not limited to idecabtagene vicleucel [Abecma], tisagenlecleucel [Kymriah], or axicabtagene ciloleucel [Yescarta]).

Multiple Myeloma



Medical Policy Manual

Draft Revision Policy: Do Not Implement

Authorization of 6 months may be granted for multiple myeloma in members who have recurrent, serious infections despite the use of prophylactic antibiotics.

Neonatal Hemochromatosis

Authorization of 6 months may be granted for prophylaxis in members who are pregnant with a history of pregnancy ending in documented neonatal hemochromatosis.

Opsoclonus-myooclonus

Authorization of 6 months may be granted for treatment of either of the following:

- Paraneoplastic opsoclonus-myooclonus-ataxia associated with neuroblastoma
- Refractory opsoclonus-myooclonus, as last-resort treatment

Pediatric Acute-onset Neuropsychiatric Syndrome (PANS)/Pediatric Autoimmune Neuropsychiatric Disorder Associated with Streptococcal Infections (PANDAS) (See Appendix C)

- Initial Authorization of 6 months may be granted when the following criteria are met:
 - Child meets PANS Research Consortium Diagnostic Criteria for PANS/PANDAS:
 - Documentation of abrupt, dramatic onset (within less than one month) of obsessive-compulsive disorder or severely restricted food intake; and
 - Documentation of concurrent presence of additional neuropsychiatric symptoms, with similarly severe and acute onset, from at least two of the following seven categories:
 - Anxiety
 - Emotional lability and/or depression
 - Irritability, aggression, and/or severely oppositional behaviors
 - Behavioral (developmental) regression
 - Deterioration in school performance (related to attention deficit/hyperactivity disorder (ADHD)-like symptoms, memory deficits, cognitive changes)
 - Sensory or motor abnormalities
 - Somatic signs and symptoms, including sleep disturbances, enuresis, or urinary frequency; and
 - Onset of symptoms occurs between 3 years of age and puberty; and
 - Documentation that other causes of symptoms have been ruled out.
 - Child has tried and failed treatment with systemic corticosteroids.
 - Documented objective assessment of baseline symptoms has been submitted (e.g., Children's Yale-Brown Obsessive-Compulsive Scale [CY-BOCS], Clinical Global Impression of Severity [CGIS], Parent-Rated Pediatric Acute Neuropsychiatric Symptom Scale [PANS Scale]).
- Re-authorization of 6 months may be granted when documentation of objective clinical response to therapy has been submitted (e.g., Children's Yale-Brown Obsessive-Compulsive Scale [CY-BOCS], Clinical Global Impression of Severity [CGIS], Parent-Rated Pediatric Acute Neuropsychiatric Symptom Scale [PANS Scale]).

Post-transfusion Purpura

Authorization of 1 month may be granted for post-transfusion purpura.

Rasmussen Encephalitis

Authorization of 6 months may be granted for Rasmussen encephalitis in members whose symptoms do not improve with anti-epileptic drugs and corticosteroids.



Medical Policy Manual

Draft Revision Policy: Do Not Implement

Renal Transplantation

Authorization of 6 months may be granted for a member undergoing renal transplantation from a live donor with ABO incompatibility or positive cross match.

Retinocochleocerebral vasculopathy, Central nervous system-predominant

Authorization of 6 months may be granted for treatment of central nervous system (CNS)-predominant Retinocochleocerebral vasculopathy (Susac syndrome (SuS)) when used as an adjunctive therapy to corticosteroid and other treatment options.

Secondary Immunosuppression Associated with Major Surgery, Hematological Malignancy, Major Burns, and Collagen-Vascular Diseases

Authorization of 6 months may be granted to prevent or modify recurrent bacterial or viral infections in members with secondary immunosuppression (IgG < 400 mg/dL) associated with major surgery, hematological malignancy, extensive burns, or collagen-vascular disease.

Solid Organ Transplantation

Authorization of 6 months may be granted for solid organ transplantation for allosensitized members.

Toxic Epidermal Necrolysis and Stevens-Johnson Syndrome

Authorization of 1 month may be granted for severe cases of toxic epidermal necrolysis or Stevens-Johnson syndrome.

Toxic Shock Syndrome

Authorization of 1 month may be granted for staphylococcal or streptococcal toxic shock syndrome when the infection is refractory to several hours of aggressive therapy, an undrainable focus is present, or the member has persistent oliguria with pulmonary edema.

Systemic Lupus Erythematosus

Authorization of 6 months may be granted for severe, active SLE in members who have experienced inadequate response, intolerance or have a contraindication to first and second line therapies (e.g., hydroxychloroquine, glucocorticoids, anifrolumab, rituximab).

Measles (Rubeola) Prophylaxis

Authorization of 1 month may be granted for postexposure prophylaxis to prevent or modify symptoms of measles (rubeola) in susceptible members exposed to the disease less than 6 days previously.

Tetanus Treatment and Prophylaxis

Authorization of 1 month may be granted for treatment or postexposure prophylaxis of tetanus as an alternative when tetanus immune globulin (TIG) is unavailable.

Varicella Prophylaxis



Medical Policy Manual

Draft Revision Policy: Do Not Implement

Authorization of 1 month may be granted for postexposure prophylaxis of varicella in susceptible individuals when varicella-zoster immune globulin (VZIG) is unavailable.

Toxic Necrotizing Fasciitis Due to Group A Streptococcus

Authorization of 1 month may be granted for members with fasciitis due to invasive streptococcal infection.

CONTINUATION OF THERAPY

Authorization may be granted for continuation of therapy when either the following criteria is met:

- For conditions with reauthorization criteria listed under the coverage criteria section: Members who are currently receiving IG therapy must meet the applicable reauthorization criteria for the member's condition.
- For all other conditions, all members (including new members) must meet the requirements in the coverage criteria.

APPENDICES **APPENDIX**

Appendix A: Impaired Antibody Response to Pneumococcal Polysaccharide Vaccine

- Age 2 years and older: impaired antibody response demonstrated to vaccination with a pneumococcal polysaccharide vaccine
- Not established for children less than 2 years of age
- Excludes the therapy initiated in the hospital setting

Appendix B: Examples of Risk Factors for Bleeding (not all inclusive)

- Undergoing a medical or dental procedure where blood loss is anticipated
- Comorbidity (e.g., peptic ulcer disease, hypertension)
- Mandated anticoagulation therapy
- Profession or lifestyle predisposes patient to trauma (e.g., construction worker, fireman, professional athlete)

Appendix C

- Members suspected of having PANS/PANDAS should be evaluated with the following tests, as indicated:
 - Complete blood cell counts with manual differential
 - Erythrocyte sedimentation rate (ESR) and C-reactive protein (CRP)
 - If there are elevated inflammatory markers, fatigue, rashes, or joint pain, antinuclear antibody (ANA) or fluorescent antinuclear antibody (FANA) should be obtained (if ANA is elevated, the member should be evaluated for lupus)
 - Comprehensive metabolic panel
 - If liver function tests are abnormal or Kayser–Fleisher rings are present, the member should be evaluated for Wilson's disease with ceruloplasmin and 24 urine copper tests.
 - Throat culture, anti-streptolysin O (ASO) and anti-DNAse B
 - Urinalysis (to assess hydration) and to rule out inflammation for children with urinary complaints
 - If urinalysis reveals pyuria, clean-catch urine culture
 - Antiphospholipid antibody work up if the member has chorea, petechiae, migraines, stroke, thrombosis, thrombocytopenia, or levido rash. Workup should include:



Medical Policy Manual

Draft Revision Policy: Do Not Implement

- anticardiolipin antibody,
- dilute Russell's viper venom time (dRVVT),
- b 2-glycoprotein I antibodies.
- Members should be evaluated for other causes of symptoms, including:
 - Autism/Autistic Spectrum Disorder
 - Developmental Delay/Mental Retardation
 - Cerebral palsy
 - Genetic conditions and syndromes (such as Down Syndrome, Fragile X, Rett Syndrome, etc.)
 - Cerebral malformation syndromes
 - Inborn errors of metabolism
 - CNS infections
 - Toxic cerebral insults (such as kernicterus, chemo-radiation, etc.)
 - Obsessive compulsive disorder
 - Anorexia nervosa
 - Avoidant/restrictive food intake disorder (ARFID)
 - Tourette syndrome
 - Transient tic disorder
 - Bipolar disorder
 - Sydenham chorea
 - Autoimmune encephalitis
 - Systemic autoimmune disease
 - Wilson's disease

MEDICATION QUANTITY LIMITS

Drug Name	Diagnosis	Maximum Dosing Regimen
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Acquired Red Cell Aplasia, Acute Disseminated Encephalomyelitis, Autoimmune Hemolytic Anemia, Management of Immune Checkpoint Inhibitor-Related Toxicities	Route of Administration: Intravenous 2g/kg per treatment, divided over 2 to 5 consecutive days
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Autoimmune Mucocutaneous Blistering Diseases, Birdshot Retinochoroidopathy, Opsoclonus-Myoclonus or Paraneoplastic Opsoclonus- Myoclonus- Ataxia Associated with Neuroblastoma, Systemic Lupus Erythematosus (SLE)	Route of Administration: Intravenous 2g/kg divided over 2 to 5 consecutive days every 4 weeks



Medical Policy Manual

Draft Revision Policy: Do Not Implement

Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Autoimmune Neutropenia	Route of Administration: Intravenous 1g/kg per day
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	B-Cell Chronic Lymphocytic Leukemia (CLL)	Route of Administration: Intravenous 400mg/kg every 3 weeks
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	BK Virus Associated Nephropathy, Enteroviral Meningoencephalitis, Hematophagocytic Lymphohistiocytosis (HLH) or Macrophage Activation Syndrome (MAS), Renal Transplantation from a Live Donor with ABO Incompatibility or Positive Cross Match	Route of Administration: Intravenous 2g/kg per dose
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Bone Marrow Transplant (BMT)/ Hematopoietic Stem Cell Transplant (HSCT)	Route of Administration: Intravenous 800mg/kg every week



Medical Policy Manual

Draft Revision Policy: Do Not Implement

Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Chronic Inflammatory Demyelinating Polyneuropathy (CIDP)	Route of Administration: Intravenous Initial: 2g/kg divided over 2 to 5 consecutive days Maintenance: 1g/kg divided over 1 to 2 consecutive days every 3 weeks
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Churg-Strauss Syndrome	Route of Administration: Intravenous 2g/kg divided over 2 to 5 days every 3 weeks
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Dermatomyositis	Route of Administration: Intravenous 2g/kg divided over 1 to 5 consecutive days every 4 weeks
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Fetal/Neonatal Alloimmune Thrombocytopenia	Route of Administration: Intravenous 2g/kg per week (maternal administration) 1g/kg once (neonatal administration). Repeat if needed.
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard	Guillain-Barré Syndrome, Toxic Necrotizing Fasciitis due to Group A	Route of Administration: Intravenous 2g/kg divided over 1 to 5 consecutive days



Medical Policy Manual

Draft Revision Policy: Do Not Implement

Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Streptococcus, Toxic Shock Syndrome	
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Hemolytic Disease of Newborn	Route of Administration: Intravenous 1g/kg as a single dose; repeat in 12 hours if needed
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	HIV-Associated Thrombocytopenia	Route of Administration: Intravenous 1g/kg daily for 2 days. Repeat if needed
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Hyperimmunoglobulinemia E Syndrome	Route of Administration: Intravenous 2mg/kg divided over 2-5 days
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Hypogammaglobulinemia from CAR-T Therapy	Route of Administration: Intravenous 500mg/kg every 4 weeks



Medical Policy Manual

Draft Revision Policy: Do Not Implement

Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo		
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Idiopathic Thrombocytopenic Purpura (ITP)	Route of Administration: Intravenous 1g/kg once daily for 2 days 400mg/kg every day for 5 days
Gammagard S/D Immune Globulin Intravenous (Human)	Idiopathic Thrombocytopenic Purpura (ITP)	Route of Administration: Intravenous 1g/kg once; may repeat on alternating days for a maximum of 3 doses 400mg/kg every day for 5 days
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Kawasaki Syndrome	Route of Administration: Intravenous <18 Year(s) 2g/kg as a single dose; repeat if needed
Gammagard S/D Immune Globulin Intravenous (Human)	Kawasaki Syndrome	Route of Administration: Intravenous <18 Years 400mg/kg every day for 4 days <18 Years 1g/kg as a single dose
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Lambert-Eaton Myasthenic Syndrome	Route of Administration: Intravenous 2g/kg divided over 2 to 5 days, may repeat every 4 to 12 weeks



Medical Policy Manual

Draft Revision Policy: Do Not Implement

Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Measles (Rubeola) Prophylaxis	Route of Administration: Intravenous 400mg/kg once as soon as possible and within 6 days after exposure
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Multifocal Motor Neuropathy	Route of Administration: Intravenous 2g/kg divided over 2 to 5 consecutive days, followed by 1-2 g/kg every 2-6 weeks (max 1 g/kg/day)
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Multiple Myeloma, Primary Immunodeficiency, Secondary Immunosuppression Associated with Major Surgery, Hematological Malignancy, Major Burns, and Collagen-Vascular Diseases	Route of Administration: Intravenous 800mg/kg every 3 weeks
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Myasthenia Gravis	Route of Administration: Intravenous 2g/kg divided over 1 to 5 consecutive days per treatment course for worsening weakness, acute exacerbation, or in preparation for surgery 1g/kg every 2-6 weeks for maintenance of refractory disease
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard	Neonatal Hemochromatosis, Prophylaxis	Route of Administration: Intravenous 1g/kg every week beginning on the 18th week of gestation until delivery



Medical Policy Manual

Draft Revision Policy: Do Not Implement

Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo		
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Parvovirus B19-Induced Pure Red Cell Aplasia	Route of Administration: Intravenous 2g/kg divided over 2 to 5 consecutive days; For HIV patients with CD4 count <100 cells/mm ³ , maintenance dose of 400 mg/kg every 4 weeks
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Polymyositis	Route of Administration: Intravenous 2g/kg divided over 1 to 5 consecutive days every 4 weeks
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Post-Transfusion Purpura	Route of Administration: Intravenous 2g/kg divided over 2 to 5 consecutive days
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Prophylaxis of Bacterial Infections in Pediatric HIV Infection	Route of Administration: Intravenous <18 year(s) 400mg/kg every 2 weeks



Medical Policy Manual

Draft Revision Policy: Do Not Implement

Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo		
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Rasmussen Encephalitis	Route of Administration: Intravenous 400mg/kg daily for 5 days every 4 weeks
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Solid Organ Transplantation, for Allosensitized Members	Route of Administration: Intravenous 3g/kg divided over 2-5 days (max 1 g/kg/day) every 2-4 weeks
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Stevens-Johnson Syndrome or Toxic Epidermal Necrolysis	Route of Administration: Intravenous 3g/kg divided over 1 to 5 consecutive days. Repeat if needed.
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Stiff-Person Syndrome	Route of Administration: Intravenous 2g/kg divided over 2 to 5 consecutive days every month



Medical Policy Manual

Draft Revision Policy: Do Not Implement

Immune Globulin Intravenous (Human) Yimmugo		
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Tetanus Treatment and Prophylaxis	Route of Administration: Intravenous 400mg/kg once if tetanus immune globulin is not available
Alyglo, Asceniv Bivigam, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, Panzyga, Privigen Immune Globulin Intravenous (Human) Yimmugo	Varicella Prophylaxis	Route of Administration: Intravenous 400mg/kg once as soon as possible and within 10 days after exposure

APPLICABLE TENNESSEE STATE MANDATE REQUIREMENTS

BlueCross BlueShield of Tennessee's Medical Policy complies with Tennessee Code Annotated Section 56-7-2352 regarding coverage of off-label indications of Food and Drug Administration (FDA) approved drugs when the off-label use is recognized in one of the statutorily recognized standard reference compendia or in the published peer-reviewed medical literature.

ADDITIONAL INFORMATION

For appropriate chemotherapy regimens, dosage information, contraindications, precautions, warnings, and monitoring information, please refer to one of the standard reference compendia (e.g., the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) published by the National Comprehensive Cancer Network®, Drugdex Evaluations of Micromedex Solutions at Truven Health, or The American Hospital Formulary Service Drug Information).

REFERENCES

1. Asceniv [package insert]. Boca Raton, FL: ADMA Biologics; April 2019.
2. Bivigam [package insert]. Boca Raton, FL: ~~Biotest Pharmaceuticals Corporation~~ ADMA Biologics; March 2024.
3. Carimune NF [package insert]. Kankakee, IL: CSL Behring LLC; May 2018.
4. Flebogamma 10% DIF [package insert]. Los Angeles, CA: Grifols Biologicals, Inc.; September 2019.
5. Flebogamma 5% DIF [package insert]. Los Angeles, CA: Grifols Biologicals, Inc.; September 2019.



Medical Policy Manual

Draft Revision Policy: Do Not Implement

6. Gammagard Liquid [package insert]. ~~Westlake Village, CA~~ Cambridge, MA: Baxalta-US Takeda Pharmaceuticals U.S.A., Inc.; September 2024.
7. Gammagard S/D [package insert]. ~~Lexington~~ Cambridge, MA: Baxalta-US Takeda Pharmaceuticals U.S.A., Inc.; February 2025.
8. Gammagard S/D IgA less than 1 mcg/mL [package insert]. Westlake Village, CA: Baxalta US Inc.; September 2016.
9. Gammaked [package insert]. Research Triangle Park, NC: Grifols Therapeutics LLC; January 2020.
10. Gammaplex 5% [package insert]. ~~Hertfordshire~~ Borehamwood, United Kingdom: Bio Products Laboratory; May 2024.
11. Gammaplex 10% [package insert]. ~~Hertfordshire~~ Borehamwood, United Kingdom: Bio Products Laboratory; May 2024.
12. Gamunex-C [package insert]. Research Triangle Park, NC: Grifols Therapeutics Inc.; January 2020.
13. Octagam 10% [package insert]. ~~Hoboken, NJ~~ New York, NY: Octapharma USA, Inc. Pfizer Labs; January 2024.
14. Octagam 5% [package insert]. ~~Hoboken, NJ~~ New York, NY: Octapharma USA, Inc. Pfizer Labs; January 2024.
15. Panzyga [package insert]. ~~Hoboken, NJ~~ New York, NY: Octapharma USA, Inc. Pfizer Labs; April 2025.
16. Privigen [package insert]. Kankakee, IL: CSL Behring LLC; March 2022.
17. DRUGDEX® System (electronic version). Truven Health Analytics, Ann Arbor, MI. Available at <http://www.micromedexsolutions.com> [available with subscription]. Accessed May 6, 2025.
18. AHFS Drug Information. <http://online.lexi.com/lco>. Accessed May 6, 2025.
19. Perez EE, Orange JS, Bonilla F, et al. Update on the use of immunoglobulin in human disease: a review of evidence by Work Group Report of the American Academy of Allergy, Asthma, and Immunology. *J Allergy Clin Immunol*. 2017;139:S1-46.
20. Panel on Opportunistic Infections in HIV-Exposed and HIV-Infected Children. Guidelines for the Prevention and Treatment of Opportunistic Infections in HIV-Exposed and HIV-Infected Children. Department of Health and Human Services. Available at: <https://clinicalinfo.hiv.gov/sites/default/files/guidelines/documents/pediatric-oi/guidelines-pediatric-oi.pdf>. Accessed May 6, 2025.
21. Clinical Consult. CVS Caremark Clinical Programs Review: Focus on immunology programs. October 2007.
22. Tomblyn M, Chiller T, Einsele H, et al. Guidelines for preventing infectious complications among hematopoietic cell transplant recipients: a global perspective. *Biol Blood Marrow Transplant*. 2009;15(10):1143-1238.
23. Feasby T, Banwell B, Bernstead T, et al. Guidelines on the use of intravenous immune globulin for neurologic conditions. *Transfus Med Rev*. 2007;21(2):S57-S107.
24. Donofrio PD, Berger A, Brannagan TH 3rd, et al. Consensus statement: the use of intravenous immunoglobulin in the treatment of neuromuscular conditions report of the AANEM ad hoc committee. *Muscle Nerve*. 2009;40(5):890-900.
25. Elovaara I, Apostolski S, van Doorn P, et al. EFNS guidelines for the use of intravenous immunoglobulin in treatment of neurological diseases: EFNS task force on the use of intravenous immunoglobulin in treatment of neurological diseases. *Eur J Neurol*. 2008;15(9):893-908.
26. Patwa HS, Chaudhry V, Katzberg H, et al. Evidence-based guideline: intravenous immunoglobulin in the treatment of neuromuscular disorders: report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology. *Neurology*. 2012;78(13):1009-1015.
27. Clinical Consult. CVS Caremark Clinical Programs Review: Focus on immunology programs. November 2009.
28. Clinical Consult. CVS Caremark Clinical Programs Review: Focus on immunology programs. October 2008.
29. Anderson D, Kaiser A, Blanchette V, et al. Guidelines on the use of intravenous immune globulin for hematologic conditions. *Transfus Med Rev*. 2007;21(2):S9-S56.
30. Picard C, Al-Herz W, Bousfiha A, et al. Primary immunodeficiency diseases: an update on the classification from the International Union of Immunological Societies Expert Committee for Primary Immunodeficiency. *J Clin Immunol*. 2015; 35(8):696-726.
31. Bonilla FA, Khan DA, Ballas ZK, et al. Practice parameter for the diagnosis and management of primary immunodeficiency. *J Allergy Clin Immunol*. 2015;136(5):1186-205.e1-78.



Medical Policy Manual

Draft Revision Policy: Do Not Implement

32. Orange JS, Ballou M, Stiehm ER, et al. Use and interpretation of diagnostic vaccination in primary immunodeficiency: a working group report of the Basic and Clinical Immunology Interest section of the American Academy of Allergy, Asthma and Immunology. *J Allergy Clin Immunol*. 2012;130:S1-S24.
33. Ameratunga R, Woon ST, Gillis D, Koopmans W, Steele R. New diagnostic criteria for common variable immune deficiency (CVID), which may assist with decisions to treat with intravenous or subcutaneous immunoglobulin. *Clin Exp Immunol*. 2013;174(2):203-11.
34. Immune Deficiency Foundation. About primary immunodeficiencies. Specific disease types. <http://primaryimmune.org/about-primary-immunodeficiencies/specific-disease-types/>. Accessed May 7, 2025.
35. European Society for Immunodeficiencies. Diagnostic criteria for PID. <http://esid.org/Working-Parties/Clinical/Resources/Diagnostic-criteria-for-PID2>. Accessed May 7, 2025.
36. Immune Deficiency Foundation. *Diagnostic and Clinical Care Guidelines for Primary Immunodeficiency Diseases*. 3rd edition. Towson, MD: Immune Deficiency Foundation; 2015. <http://primaryimmune.org/wp-content/uploads/2015/03/2015-Diagnostic-and-Clinical-Care-Guidelines-for-PI.pdf>. Accessed May 7, 2025.
37. NCCN Clinical Practice Guidelines in Oncology® Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma (Version 3.2025). © 2025 National Comprehensive Cancer Network, Inc. <https://www.nccn.org>. Accessed May 12, 2025.
38. Van den Bergh PY, Hadden RD, van Doorn PA, et al. European Federation of Neurological Societies/Peripheral Nerve Society guideline on management of chronic inflammatory demyelinating polyradiculoneuropathy: report of a joint task force of the European Federation of Neurological Societies and the Peripheral Nerve Society - second revision. *Eur J Neurol*. 2021;28(11):3556-3583.
39. Joint Task Force of the EFNS and the PNS. European Federation of Neurological Societies/Peripheral Nerve Societies guideline on management of multifocal motor neuropathy. *J Peripher Nerv Syst*. 2010;15:295-301.
40. Olney RK, Lewis RA, Putnam TD, Campellone JV. Consensus criteria for the diagnosis of multifocal motor neuropathy. *Muscle Nerve*. 2003;27:117-121.
41. Dalakas M. Inflammatory muscle diseases. *N Engl J Med*. 2015;372(18):1734-1747.
42. Neunert C, Terrell DR, Arnold DM, et al. American Society of Hematology 2019 guidelines for immune thrombocytopenia. *Blood Adv*. 2019;3(23):3829-3866.
43. Provan D, Arnold DM, Bussell JB, et al. Updated international consensus report on the investigation and management of primary immune thrombocytopenia. *Blood Adv* 2019;3(22): 3780–3817.
44. Shearer WT, Dunn E, Notarangelo LD, et al. Establishing diagnostic criteria for severe combined immunodeficiency disease (SCID), leaky SCID, and Omenn syndrome: the Primary Immune Deficiency Treatment Consortium experience. *J Allergy Clin Immunol*. 2014;133(4):1092.
45. NCCN Clinical Practice Guidelines in Oncology® Management of Immunotherapy-Related Toxicities (Version 1.2025). © 2024 National Comprehensive Cancer Network, Inc. <https://www.nccn.org>. Accessed May 12, 2025.
46. [HIVPeds]Working Group on Antiretroviral Therapy of the National Pediatric HIV Resource Center. Antiretroviral therapy and medical management of pediatric HIV infection. *Pediatrics*. 1998;102:1005-1063.
47. Center for Medicare and Medicaid Services (CMS). Intravenous immune globulin for autoimmune mucocutaneous blistering diseases. Decision Memorandum. CPG-00109N. Baltimore, MD: CMS; January 22, 2002.
48. Sawinski D, Goral S. BK virus infection: An update on diagnosis and treatment. *Nephrol Dial Transplant*. 2015;30(2):209-217.
49. Groh M, Pagnoux C, Baldini C, et al. Eosinophilic granulomatosis with polyangiitis (Churg–Strauss) (EGPA)Consensus Task Force recommendations for evaluation and management. *Eur J Intern Med*. 2015;26(7):545-553.
50. McKinney RE, Katz SL, Wilfert CM. Chronic enteroviral meningoencephalitis in agammaglobulinemic patients. *Rev Infect Dis*. 1987;9(2):334-56.
51. Sen, E.S., Clarke, SL, Ramanan, A.V. Macrophage Activation Syndrome. *Indian J Pediatr*. 2016;83(3): 248-53.
52. Kimata H. High-dose intravenous gammaglobulin treatment of hyperimmunoglobulinemia E syndrome. *J Allergy Clin Immunol*. 1995;95:771-774.
53. Yescarta [package insert]. Santa Monica, CA: Kite Pharma; June 2024.



Medical Policy Manual

Draft Revision Policy: Do Not Implement

54. Kymriah [package insert]. East Hanover Morris Plains, NJ: Novartis Pharmaceuticals Corporation; December 2024.
55. Lexi-Drugs. Lexicomp. Wolters Kluwer Health, Inc. Riverwoods, IL. Available at <https://www.online.lexi.com> [available with subscription]. Accessed May 7, 2025.
56. Lopriore E., Mearin M.L., Oepkes D., Devlieger R., Whittington P.F. Neonatal hemochromatosis: Management, outcome, and prevention. *Prenat. Diagn.* 2013;33:1221–1225.
57. Whittington PF, Kelly S. Outcome of pregnancies at risk for neonatal hemochromatosis is improved by treatment with high-dose intravenous immunoglobulin. *Pediatrics.* 2008;121(6):e1615–e1621.
58. Tate ED, Pranzatelli MR, Verhulst SJ, et al. Active comparator-controlled rater-blinded study of corticotropin-based immunotherapies for opsoclonus-myoclonus syndrome. *J Child Neurol.* 2012; 27:875-884.
59. Mutch LS, Johnston DL. Late presentation of opsoclonus-myoclonus-ataxia syndrome in a child with stage 4S neuroblastoma. *J Pediatr Hematol Oncol.* 2005;27(6):341-343.
60. Sonnenday CJ, Ratner LE, Zachary AA, et al. Preemptive therapy with plasmapheresis/intravenous immunoglobulin allows successful live donor renal transplantation in patients with a positive cross-match. *Transplant Proc.* 2002;34(5):1614-1616.
61. Razonable RR, Humar A. Cytomegalovirus in Solid Organ Transplantation. *Am J Transplant.* 2013;13:93-106.
62. Jordan SC, Toyoda M, Kahwaji J, et al. Clinical Aspects of Intravenous Immunoglobulin Use in Solid Organ Transplant Recipients. *Am J Transplant.* 2011;11:196-202
63. Kimberlin DW, Brady MT, Jackson MA, et al. Staphylococcus aureus. American Academy of Pediatrics. Red Book: 2018 Report of the Committee on Infectious Diseases. 2018:733-746
64. Gordon C, Amissah-Arthur MB, Gayed M, et al. British Society for Rheumatology guideline on management of systemic lupus erythematosus in adults. *Rheumatology (Oxford).* 2018;57:e1-45.
65. Abecma [package insert]. Summit, NJ: Celgene Corporation; March 2025.
66. Alyglo [package insert]. Teaneck, NJ: GC Biopharma USA, Inc.; December 2023.
67. Illinois Statutes Chapter 215. Insurance § 5/356z.24. Immune gamma globulin therapy: <https://www.ilga.gov/legislation/ilcs/documents/021500050K356z.24.htm>
68. Yimmugo [package insert]. Dreieich, Germany: Biotest AG; July 2024.
69. Rennebohm RM, Asdaghi N, Srivastava S, et al: Guidelines for treatment of Susac syndrome - an update. *Int J Stroke* 2020; 15(5):484-494.
70. Chang K, Frankovich J, Cooperstock M, et al. Clinical evaluation of youth with pediatric acute-onset neuropsychiatric syndrome (PANS): recommendations from the 2013 PANS Consensus Conference. *J Child Adolesc Psychopharmacol.* 2015;25(1):3-13.
71. Gammagard Liquid ERC [package insert]. Cambridge, MA: Takeda Pharmaceuticals U.S.A., Inc.; June 2025.
72. Qivigy [package insert]. Fort Lee, NJ: Kedrion Biopharma Inc.; September 2025.

EFFECTIVE DATE

ID_CHS_2025