FIRST COAST SERVICE OPTIONS
MAC - PART A/B
LOCAL COVERAGE DETERMINATION

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Contractor Name
First Coast Service Options, Inc.

Contractor Number
09101 – Florida
09201 – Puerto Rico/Virgin Islands
09102 – Florida
09202 – Puerto Rico
09302 – Virgin Islands

Contractor Type
MAC – Part A and B

LCD Title
Intravenous Immune Globulin

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CMS National Coverage Policy
Language quoted from CMS National Coverage Determinations (NCDs) and coverage provisions in interpretive manuals are italicized throughout the Local Coverage Determination (LCD). NCDs and coverage provisions in interpretive manuals are not subject to the LCD Review Process (42 CFR 405.860[b] and 42 CFR 426 [Subpart D]). In addition, an administrative law judge may not review an NCD. See §1869(f)(1)(A)(i) of the Social Security Act.

Unless otherwise specified, italicized text represents quotation from one or more of the following CMS sources:

Medicare Claims Processing Transmittal 507, CR 3745, dated March 18, 2005
CMS Manual System, Pub 100-03, Medicare National Coverage, Chapter 1, Section 250.3
CMS Manual System, Pub 100-04, Medicare Claims Processing, Chapter 17, Section 80.6
CMS Transmittal 1261 (Change Request 5635, dated 06/01/2007)
Intravenous Immune Globulin

CMS Transmittal 2045, Change Request 7147, dated September 10, 2010
CMS Transmittal 2050, Change Request 7117, dated September 17, 2010
Social Security Act Section 1861 (t) (2) (b)
CMS Transmittal 2662, Change Request 8237, dated March 1, 2013. Update of the Ambulatory Surgical Center (ASC) Payment System.
CMS Transmittal 2664, Change Request 8228, dated March 1, 2013. Update of the Hospital Outpatient Prospective Payment System (OPPS)

Primary Geographic Jurisdiction
Florida
Puerto Rico/Virgin Islands

Oversight Region
Region I

Original Determination Effective Date
10/01/2015

Original Determination Ending Date
N/A

Revision Effective Date
10/01/2017

Revision Ending Date
09/30/2017

Indications and Limitations of Coverage and/or Medical Necessity

Intravenous Immune Globulin (IVIG) is a solution of human immunoglobulin specifically prepared for intravenous infusion. Immunoglobulin contains a broad range of antibodies that specifically act against bacterial and viral antigens.

The use of intravenous immune globulin should be reserved for patients with serious defects of antibody function. The goal is to provide immunoglobulin G (IgG) antibodies to those who lack them. Coverage will be provided for intravenous immune globulin when it is used in treatment of the following conditions:

1. Immunodeficiency Disorders

a.) Primary Humeral Immunodeficiency Syndromes

IVIG is indicated for the treatment of patients with primary immunodeficiency syndromes such as common variable immunodeficiency (CVID), congenital agammaglobulinemia (X-linked agammaglobulinemia), severe combined immunodeficiency (SCID), X-linked immunodeficiency with hyperimmunoglobulin M (IgM), and Wiskott-Aldrich syndrome to replace or boost immunoglobulin G (IgG).

- Common variable immunodeficiency (CVID), also known as acquired hypogammaglobulinemia, adult-onset hypogammaglobulinemia, and dysgammaglobulinemia, is characterized by reduced serum immunoglobulins, impaired...
antibody responses, and heterogenous clinical features. It is a rare syndrome, affecting one in 50,000 to one in 200,000 people. In most patients, the onset is in the second or third decade of life. The most common clinical presentation of CVID is an increased susceptibility to infection. Because patients with CVID are predisposed to chronic lung disease and pulmonary deterioration as a result of chronic or subclinical infection, early recognition of the diagnosis and initiation of the IVIG therapy are critical. Patients with CVID can also develop a variety of autoimmune and inflammatory disorders and are also at risk for inflammatory bowel disease.

Once the diagnosis of CVID is suspected based on clinical presentation, laboratory confirmation should be made. A low serum IgG level is the most consistent laboratory abnormality in CVID, with most patients having concurrent deficiencies of IgA and IgM. However, there are rare instances when a patient will have normal IgG levels. Therefore, the serum immunoglobulin measurement alone does not establish a diagnosis of CVID. A definitive diagnosis of CVID is established when a patient does not demonstrate an antibody response or rejection to immunization with protein antigens (e.g., tetanus) or carbohydrate antigens (e.g., pneumococcal capsular polysaccharides such as Pneumovax).

The following diagnostic evidence is required to support a diagnosis of CVID:

- Laboratory reports demonstrating an IgG level of less than 400 mg/dl for the assay utilized, and lack of response to immunization (see below);
- OR
- An IgG level greater than or equal to 400mg/dl with evidence of recurrent severe infections with documented antibiotic therapy and lack of response to immunization (see below);
- Laboratory reports demonstrating a lack of ability to produce an antibody response to a protein antigen (e.g., tetanus) or one of the polysaccharide antigens (e.g., Pneumococcal polysaccharide or H. Influenza type B). Two or more immunizations should have been given in the 12 months prior to laboratory assessment of antibody response. The exception maybe when a severe adverse reaction has occurred with the last immunization and two have been given over 12 month or longer interval. Pneumococcal titers are measured differently among different laboratories with some measuring 4, 5, 6, 12, or 14 serotypes. An adequate response of the serotypes tested should include a two to three fold increase in titers in at least 50 percent of the serotypes.

The only exception to Functional Antibody Testing criteria would be for patients who had this diagnosis prior to the introduction of this laboratory technology. In this situation, low total IgG values would be important in supporting the diagnosis of B-cell or humeral immune deficiency for this patient population.

Reimbursement will not be provided for the initiation or continuation of intravenous immune globulin therapy based solely on a low IgG value, there must be a demonstrated lack of ability to produce an adequate antibody response to protein or carbohydrate antigens. There is no scientific rationale for IVIG therapy in patients with normal humeral immunity but with recurrent infections. The use of IVIG for recurrent viral upper respiratory infection will not be considered medically reasonable and necessary. Sinopulmonary disease which merits the use of IVIG is defined as a documented pneumonia, bronchiectasis, chronic bronchitis, recurrent bacterial or mycoplasma bronchitis, pneumonitis and documented episodes of acute bacterial sinusitis requiring extensive and/or recurrent courses of antibiotics. The goal of using IVIG therapy in this situation to prevent progressive lung disease and avoid other serious bacterial infections including meningitis, sepsis, solid organ abscess, osteomyelitis, or other bacterial infection of sufficient severity to merit hospitalization

When IVIG is indicated in immunodeficient individuals (as defined above), with recurrent or chronic bacterial sinusitis, the medical record must document findings diagnostic of, or highly suggestive of, recurrent or chronic bacterial sinus infection. Such findings may include, but are not limited to, fever, unilateral purulent nasal discharge and unilateral facial pain." Absence of these findings will not preclude the use of IVIG, however, documentation will be considered insufficient to justify medical necessity when antibiotic therapy is prescribed routinely during the first few days of symptoms in the absence of these findings, or in the instance where antibiotic therapy is prescribed by phone without the benefit of an examination by a physician (or qualified non-physician practitioner). IVIG is never indicated and therefore not reasonable and necessary for the treatment of simple rhinosinusitis, even in immunodeficient individuals.

Dosage Guidelines:
Intravenous Immune Globulin..4 A/B

The dosing regimen for patients with CVID is not standardized, but is based primarily on the clinical response. Generally, checking trough levels of IgG and functional antibody levels are not medically necessary more frequently than every 3-6 months. A patient will generally receive initial IVIG doses of 400-600 mg/kg every 3-4 weeks titrating the dose and interval to achieve serum trough levels of at least 500 mg/dl or 300 mg/dl above the baseline IgG level. Documentation should support the rationale for a serum trough level greater than 300 mg above the baseline IgG. IVIG replacement in these patients is usually life-long.

Maintenance doses exceeding the 400-600 mg/kg range may be covered, but only if the desired clinical response to 400-600 mg/kg is clearly documented as inadequate.

- Congenital agammaglobulinemia (X-linked agammaglobulinemia) is an inherited deficiency that appears in the first 3 years of life and occurs in one out of 10,000 people. Quantitative immunoglobulins show marked deficits or absence of all five immunoglobulin classes. Peripheral blood B-lymphocytes are usually absent. Severe combined immunodeficiency (SCID) is a rare and fatal inherited syndrome that has an incidence of approximately one in 1,000,000 people. The typical case involves an infant less than one year of age. The lymphocyte counts are significantly below normal, the levels of B- and T-lymphocytes are absent or below normal, the lymphocyte response to mitogen is absent or below normal, and the quantitative measurements of IgG, IgA, and IgM show marked deficits.

- X-linked immunodeficiency with hyperimmunoglobulin M (IgM) is similar to X-linked agammaglobulinemia, however, these patients sometimes have lymphoid hyperplasia. The concentrations of serum IgG, IgA, and IgE are very low, whereas the serum IgM concentration is either normal or, more frequently, greatly elevated and polyclonal.

- Wiskott-Aldrich syndrome is an X-linked recessive syndrome characterized by eczema, thrombocytopenia purpura with normal-appearing megakaryocytes but small defective platelets, and undue susceptibility to infection. Patients usually present during infancy. Survival beyond the teens is rare.

For congenital agammaglobulinemia (X-linked agammaglobulinemia), severe combined immunodeficiency (SCID), X-linked immunodeficiency with hyperimmunoglobulin M (IgM), and Wiskott-Aldrich syndrome, the dosage variability is based on a patient’s condition and disease type, providers must adhere to the current clinical standard of practice and recommended dosage in current literature. Any time there is a departure from the standard dosing, the rationale for this must be documented in the medical record.

Dosage Guidelines:

- A patient will generally receive initial IVIG doses of 400-600 mg/kg every 3-4 weeks titrating the dose and interval to achieve serum trough levels of at least 500 mg/dl or 300 mg/dl above the baseline IgG level. Documentation should support the rationale for a serum trough level greater than 300 mg above the baseline IgG. IVIG replacement in these patients is usually life-long.

- Maintenance doses exceeding the 400-600 mg/kg range may be covered, but only if the desired clinical response to 400-600 mg/kg is clearly documented as inadequate.

b.) Idiopathic Thrombocytopenic Purpura (ITP)

Idiopathic thrombocytopenic purpura (ITP) is a decrease in the number of circulating platelets in absence of toxic exposure or other disease(s) associated with a low platelet count. ITP occurs as an effect of peripheral platelet destruction. Acute ITP is a disease of childhood, which usually follows an acute infection and has spontaneous resolution within 2 months. Chronic ITP is a disease that persists longer than 6 months without a specific cause. Chronic ITP is usually seen in adults and persists for months to years. In patients with known ITP high dose parenteral glucocorticoids, and IVIG may be appropriate with or without platelet transfusions.

- IVIG is not medically necessary in the following scenarios
  - Children with platelet counts >30,000/mm that are asymptomatic or have only minor purpura.
  - Adults with a platelet count >50,000/mm

- IVIG may be medically necessary in
  - Management of acute bleeding, due to severe thrombocytopenia (platelet counts usually less than 30,000/ul);
In patients with severe thrombocytopenia (platelet counts less than 20,000/ul) considered to be at risk for intracerebral or other hemorrhage, especially in the presence of predisposing co-morbidities (hypertension, peptic ulcer disease). These risk factors must be clearly documented in the medical record.

To increase platelet counts prior to invasive surgical procedures, e.g., splenectomy

Dosage guidelines: For acute ITP: (a) 1,000 mg/kg body weight given on one or two consecutive days, or (b) 400 mg/kg body weight given on each of two to five consecutive days.

For chronic refractory ITP, IVIG is covered for persons meeting all of these criteria:

- Prior treatment with corticosteroids and splenectomy.
- Duration of illness of greater than six months.
- Age of 10 years or older.
- No concurrent illness/disease explaining thrombocytopenia, and,
- Platelet counts persistently at or below 20,000/ul.

Dosage guideline for chronic ITP:

- Dosage Guidelines for this disease process include (a) initial 1 or 2 g/kg body weight, usually administered no more frequently than every two to six weeks, as determined by serial platelet counts.
- Maintenance - 800-1,000 mg/kg body weight, usually administered no more frequently than every two to six weeks, as determined by serial platelet counts.

c.) ITP in Patients with Human Immunodeficiency Virus (HIV) Disease

ITP can be associated with HIV disease, the mechanism of which is thought to be similar to individuals who are HIV negative. Antiretroviral therapy is the single best treatment to reverse abnormalities in HIV infection.

IVIG is indicated for ITP and HIV-associated thrombocytopenia only under the following circumstances:

- When administered preoperatively for patients undergoing invasive surgical procedures, such as, splenectomy, who have platelet counts <20,000.
- For patients with platelet counts <30,000 who have active bleeding.
- For pregnant women with platelet counts <10,000 in the third trimester.
- For pregnant women with platelet counts 10,000-30,000 who are bleeding.

The duration of treatment is generally a short course of 3 to 5 days. Treatments exceeding this duration are subject to medical review.

d.) IVIG in Children with Human Immunodeficiency Virus (HIV) Disease who do not have ITP

IVIG may be medically necessary to reduce significant bacterial infections when all three primary criteria and one of the secondary criteria are met:

**Primary criteria:**

1. Age less than 13 years
2. IgG level less than 400 mg/dl
3. Entry CD4+ lymphocyte cell count is greater than or equal to 200/mm³
Secondary criteria:

1. Two or more bacterial infections in a 1-year period despite antibiotic chemoprophylaxis with TMP-SMZ or another active agent
2. The child has received two doses of measles vaccine and lives in a region with a high prevalence of measles
3. The child has chronic bronchiectasis whose immunological response is suboptimal to antimicrobial and pulmonary therapy
4. The child has immune abnormalities with symptomatic or asymptomatic HIV, as evidenced by a lack of ability to produce an antibody response to immunization with protein antigens (e.g., tetanus) or carbohydrate antigens (e.g., pneumococcal capsular polysaccharides. such as, Pneumovax).

Dosage guideline: For pediatric (HIV) Infection is 400-mg/kg body weight given every 28 days to prevent serious bacterial infection. Claims reimbursed with dosages in larger or decreased frequency of administration are subject to medical review, like any service.

2. Neurological Disorders

IVIG is indicated for the treatment of patients with neurological disorders such as Guillain-Barre’ syndrome, relapsing-remitting multiple sclerosis, chronic inflammatory demyelinating polyneuropathy (and variant syndromes such as Multifocal Motor Neuropathy), myasthenia gravis, refractory polymyositis, and refractory dermatomyositis. However, it is noted that not all patients with these diagnoses require treatment with IVIG.

IVIG therapy will only be considered medically reasonable and necessary for these neurological disorders when there is evidence of rapid progression of the disease or relapse or when other forms of treatment have failed.

For each of these diseases, the diagnosis of the disorder must be unequivocal. There must be clinical (history, quantitative examination), electrophysiological motor-sensory nerve conductions, electromyography (EMG), cerebrospinal fluid (CSF), and when necessary, biopsy (muscle-nerve) data to support the diagnosis.

Once IVIG treatment is initiated, meticulous documentation of progress is required. If there is initial improvement, and continued treatment is necessary, quantitative assessment to monitor the progress is required (e.g., ADL measurements). Changes in these parameters must be clearly documented. Subjective or experiential improvement alone is insufficient to either continue IVIG or to expect coverage.

There must be evidence of an attempt to wean the dosage when improvement has occurred. This “weaning” may be either a reduction in the frequency of administration and/or a reduction in dosage. There must be an attempt to stop the IVIG infusion if improvement is sustained with dosage reduction. If improvement does not occur with IVIG, then IVIG therapy is not indicated and should be discontinued.

- Guillain-Barre’ syndrome is an acute, frequently severe, and fulminant polyneuropathy that occurs at a rate of approximately one case in a million per month. An infection generally precedes the onset of neuropathy by 1 to 3 weeks. A small proportion occurs within 1 to 4 weeks of a surgical procedure. The clinical features include ascending paralysis, areflexia (absence of reflexes), possibly ascending sensory loss, and high spinal fluid protein levels. Intravenous administration of high-dose immunoglobulin given over 5 days has been proven effective.

  Dosage Guidelines: 1,000 mg/kg body weight daily for two days; or 400 mg/kg body weight daily for five days.

- Multiple Sclerosis that is relapsing-remitting is characterized by unpredictable recurrent attacks of neurological dysfunction. Attacks generally evolve over days to weeks and may be followed by complete, partial, or no recovery. Patients with a relapsing-remitting course experience no progression of neurological impairment between attacks. The age of onset is generally between 15 and 60 years. Dosage

  Dosage Guidelines: Usual dosing is 200-400 mg/kg every 4 weeks.

- Chronic Inflammatory Demyelinating Polyneuropathy (CIDP) includes a group of chronic progressive or relapsing, inflammatory demyelinating peripheral neuropathies that are manifested by physiological abnormalities such as slowed nerve
conduction velocities or dispersion of compound muscle action potentials. Clinical features include chronic progressive or relapsing weakness with sensory loss and high spinal fluid protein levels. In addition, IVIG may be approved for CIDP patients, who had no response to corticosteroids or have contraindications to steroids. The physician will be required to substantiate the contraindication(s) in the medical record.

Dosage Guidelines for:

- Initial therapy - 400 mg/kg body weight per day for five days
- Maintenance therapy - 250-400 mg/kg body weight no more frequently than every two weeks.

Myasthenia gravis is a disorder of neuromuscular transmission characterized by fluctuating weakness and fatigability. It is attributed to blockage of the acetylcholine receptor at the neuromuscular end-plates by anti-acetylcholine receptor autoantibodies. The diagnosis of myasthenia gravis is confirmed by a positive Tensilon test. Anticholinesterase drugs or thymectomy are generally the first treatments for this condition.

IVIG is indicated in those patients with myasthenia gravis who are either refractory to corticosteroids over a 6 week period; have been unable to successfully taper corticosteroids below moderately high doses; or develop severe side effects due to steroid therapy; and have also failed at least one immunosuppressive agent (e.g., azathioprine, Methotrexate, cyclophosphamide, cyclosporine). Length of treatment with IVIG will vary due to the remittent and recurrent nature of this condition.

Dosage Guidelines: At this time, there is no clearly established dosing regimen, although many studies have reported success with a dose of 400 mg/kg weight per day for five days.

Polymyositis and dermatomyositis are conditions in which the skeletal muscle is damaged by a nonsuppurative inflammatory process dominated by lymphocytic infiltration. Polymyositis begins acutely or insidiously with muscle weakness, tenderness, and discomfort. Proximal muscles more often than distal muscles are affected. Dermatomyositis involves characteristic skin changes that may precede or follow the muscle syndrome and include a localized or diffuse erythema, maculopapular eruption, scaling eczematoid dermatitis, or rarely, an exfoliative dermatitis. The classic lilac-colored (heliotrope) usually manifested on the eyelids, bridge of the nose, cheeks (butterfly distribution), forehead, chest, elbows, knees and knuckles, and around the nailbeds. Periorbital edema is frequent.

Diagnostic studies to support a diagnosis of polymyositis or dermatomyositis include an elevated creatine phosphokinase (CPK), an abnormal electromyography (EMG), and/or an abnormal muscle biopsy.

IVIG is indicated in those patients with polymyositis or dermatomyositis who are either refractory to corticosteroids over a 6 week period; have been unable to successfully taper corticosteroids below moderately high doses; or develop severe side effects due to steroid therapy; and have also failed at least one immunosuppressive agent (e.g., azathioprine, Methotrexate, cyclophosphamide, cyclosporine). Length of treatment with IVIG will vary due to the remittent and recurrent nature of these conditions. The need for continuation of IVIG must be documented and would be demonstrated by continued decreased muscle strength, elevated CPKs, and/or EMG abnormalities.

Dosage Guidelines: 1,000 mg/kg body weight daily for two days every four weeks or 400mg/kg body weight for five days every four weeks in patients intolerant of high-dose therapy.

Note: For patients who are unable to tolerate corticosteroid or immunosuppressive agents, or in the rare instance that these agents are contraindicated for the patient, treatment for polymyositis or dermatomyositis will be covered only if medical record documentation clearly indicates the reason that the patient cannot take the corticosteroid or immunosuppressive agent.

IVIG is covered as an alternative treatment to prevent blindness for patients with autoimmune optic neuropathy unresponsive to corticosteroids. This off-label use will be considered a treatment alternative only for patients who are refractory to available standard treatments for autoimmune optic neuropathy.

Other Disorders
a.) Chronic Lymphocytic Leukemia

Chronic lymphocytic leukemia is a disorder of accumulation of mature-appearing lymphocytes in blood marrow and other organs. The symptoms usually develop gradually and include fatigue, shortness of breath with activity, weight loss, or frequent infections of the skin, lungs, kidneys, or other sites. Recurrent infections are a frequent complication.

IVIG is indicated for the prevention of recurrent bacterial infections and an immunoglobulin G (IgG) level of less than 600 mg/dl in patients with hypogammaglobulinemia associated with B-cell chronic lymphocytic leukemia (CLL) in order to help correct the patient’s immunity deficiency.

Dosage guideline for this disease process is 400 mg/kg body weight given every 3 – 4 weeks.

b.) Bone Marrow Transplantation (BMT)

IVIG is indicated to prevent the risk of acute graft-versus-host disease, associated interstitial pneumonia (infectious or idiopathic) and infections (e.g., cytomegalovirus infections [CMV], varicella-zoster virus infection, and recurrent bacterial infection) after BMT in patients 20 years of age or older during the first 100 days after transplantation. It is not indicated in BMT patients younger than 20 years of age, nor is it recommended for autologous transplants.

Dosage guideline is 500 mg/kg body weight given on days –7 and –2 pre-transplantation, then weekly through day 90 post-transplantation.

c.) Kawasaki Disease (mucocutaneous Lymph Node Syndrome)

Kawasaki disease is an acute childhood vasculitis, the diagnosis of which is made based on clinical criteria. These criteria include fever of at least five (5) days duration and at least four (4) of the following: (1) polymorphic exanthem, (2) changes in the oropharynx such as fissured lips and strawberry tongue without discrete lesions, (3) changes in the extremities such as edema of the hands and feet and erythema of the palms and soles, (4) bilateral conjunctival infection without exudate, and (5) cervical lymphadenopathy, often singular and unilateral. IVIG is indicated for the treatment of Kawasaki disease when used in conjunction with aspirin.

Dosage guideline: 400 mg/kg body weight for four (4) consecutive days or a single infusion of 2,000 mg/kg body weight.

d.) Autoimmune Hemolytic Anemia

Autoimmune hemolytic anemia is an acquired anemia induced by the binding of autoantibodies and/or a complement to the red cells. Signs and symptoms may include, but are not limited to, weakness, fatigue, exertional dyspnea, pallor, jaundice, tachycardia, splenomegaly, hepatomegaly, and anemia. In the majority of patients, this disease can be controlled by steroid therapy alone, by splenectomy or by a combination of these.

In this condition, intravenous immune globulin is indicated only for those patients who have failed to respond to other forms of therapy and/or require rapid cessation of hemolysis due to severe or life threatening manifestations of this condition. Duration of treatment is generally a short course of 3-5 weeks. Realizing dosage may vary based on patient’s individual situation; dosage must be in keeping with the recommended current literature and standard of practice.

Dosage guidelines: Realizing dosage may vary based on a patient’s individual situation; the dosage must be in keeping with the recommended dosage in current literature and the standard of practice. Any time there is a departure from the standard dosing, the rationale for this must be documented in the medical record.

e.) Autoimmune Neutropenia

Autoimmune neutropenia is a hematologic disorder in which there is a decreased number of neutrophilic leukocytes in the blood due to an autoimmune mechanism. The disease is usually benign and self-limiting, and treatment beyond antibiotics is not necessary.
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frequently required. Occasionally, however, it is marked by repeated infection. IVIG may be recommended for the treatment of an absolute neutrophil count less than 800 mm with recurrent bacterial infections.

Dosage guidelines are 1 to 2 g/kg of IVIG over 1 to 2 days.

f.) Autoimmune Mucocutaneous Blistering Diseases

Effective October 1, 2002, IVIG is covered for the treatment of biopsy-proven (1) Pemphigus Vulgaris, (2) Pemphigus Foliaceus, (3) Bullous Pemphigoid, (4) Mucous Membrane Pemphigoid (a.k.a., Cicatricial Pemphigoid), and (5) Epidermolysis Bullosa Acquista for the following patient subpopulations:

1. Patients who have failed conventional therapy;
2. Patients in whom conventional therapy is otherwise contraindicated; or
3. Patients with rapidly progressive disease in whom a clinical response could not be affected quickly enough using conventional agents. In such situations IVIG therapy would be given along with conventional treatment(s) and the IVIG would be used only until the conventional therapy could take effect.

Dosage guidelines: 2,000 mg/kg body weight per month divided into 1 to 5 doses.

In addition, IVIG for the treatment for autoimmune mucocutaneous blistering diseases must be used only for short-term therapy and not as a maintenance therapy.

IVIG is considered medically reasonable and necessary for the following off-label indications:

- Stiff-man syndrome. Please refer to the utilization guidelines and documentation requirements for specific criteria related to coverage.
- Hypogammaglobulinemia with NNI (non neutropenic infection) induced by certain agents (All criteria must be met):
  1. Recent treatment with rituximab in combination with cytotoxic chemotherapy
  2. Laboratory proven hypogammaglobulinemia and an absolute neutrophil count over 1,000.
  3. Acute infection requiring hospitalization or an infection lasting over 2 weeks in spite of antibiotics or an infection relapsing immediately after discontinuation of antibiotics.
  4. Dose: 400-600 mg/kg one time that can be repeated at a standard interval based on laboratory assessment of IG levels and persistence of non neutropenic infection.

**Type of Bill Code**

Hospital - 13x
Critical Access Hospital – 85x

**Revenue Code**

Drugs Requiring Detailed Coding - 636

**CPT/HCPCS Codes**

J1459 Injection, immune globulin (Privigen), intravenous, non-lyophilized (e.g., liquid), 500 mg

J1556 Injection, immune globulin (Bivigam), 500 mg

J1557 Injection, immune globulin, (Gammaplex), intravenous, non-lyophilized (e.g. liquid), 500 mg

J1561 Injection, immune globulin (Gamunex-C/Gammaked), non-lyophilized (e.g., liquid), 500 mg
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J1566  Injection, immune globulin, intravenous, lyophilized (e.g., powder), not otherwise specified, 500 mg
J1568  Injection, immune globulin (Octagam), intravenous, non-lyophilized (e.g., liquid), 500 mg
J1569  Injection, immune globulin (Gammagard Liquid), non-lyophilized (e.g., liquid), 500 mg
J1572  Injection, immune globulin, (Flebogamma/Flebogamma DIF), intravenous, non-lyophilized (e.g., liquid), 500 mg
J1575  Injection, immune globulin/hyaluronidase, (hyqvia), 100 mg immune globulin

ICD-10 Codes that Support Medical Necessity

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<th>Description</th>
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<td>Cicatricial pemphigoid</td>
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<tr>
<td>L12.8-L12.9</td>
<td>Pemphigoid</td>
</tr>
<tr>
<td>L13.8</td>
<td>Other specified bullous disorders</td>
</tr>
<tr>
<td>L14</td>
<td>Bullous disorders in diseases classified elsewhere</td>
</tr>
<tr>
<td>L40.1</td>
<td>Generalized pustular psoriasis</td>
</tr>
<tr>
<td>M30.3</td>
<td>Mucocutaneous lymph node syndrome [Kawasaki]</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M33.00-M33.19</td>
<td>Juvenile dermatomyositis, organ involvement unspecified - Other dermatomyositis with other organ involvement</td>
</tr>
<tr>
<td>M33.20-M33.29</td>
<td>Polymyositis</td>
</tr>
<tr>
<td>M33.90-M33.99</td>
<td>Dermatopolymyositis, unspecified (4 codes)</td>
</tr>
<tr>
<td>M36.0</td>
<td>Dermato(poly)myositis in neoplastic disease</td>
</tr>
<tr>
<td>T86.00-T86.09</td>
<td>Complications of bone marrow transplant</td>
</tr>
<tr>
<td>T86.11</td>
<td>Kidney transplant rejection</td>
</tr>
<tr>
<td>*Z78.9</td>
<td>Other specified health status</td>
</tr>
<tr>
<td>*Z91.89</td>
<td>Other specified personal risk factors, not elsewhere classified</td>
</tr>
<tr>
<td>*Z92.21</td>
<td>Personal history of antineoplastic chemotherapy</td>
</tr>
</tbody>
</table>

* Dual Diagnosis requirement:

For the pediatric population less than thirteen, there is a requirement for a dual diagnosis; B20 Human immunodeficiency virus [HIV] disease plus Z91.89 Other specified personal risk factors, not elsewhere classified OR B20 Human immunodeficiency virus [HIV] disease plus Z78.9 Other specified health status.

For adults ≥ 13 there is a dual diagnosis requirement for administering IVIG for thrombocytopenia associated with HIV disease; primary diagnosis of D69.6 Thrombocytopenia, unspecified and a secondary diagnosis of B20 Human immunodeficiency virus [HIV] disease.

For patients treated for Hypogammaglobulinemia due to non neutropenic infection a dual diagnosis of D80.1 Nonfamilial hypogammaglobulinemia and Z92.21 Personal history of antineoplastic chemotherapy is required.

**Diagnoses that Support Medical Necessity**

See Diagnoses That Support Medical Necessity

**ICD-10 Codes that DO NOT Support Medical Necessity**

All diagnoses not listed under the ‘Diagnoses that Support Medical Necessity’

**Diagnoses that DO NOT Support Medical Necessity**

N/A

**Associated Information**

**Documentation Requirements**

Medical record documentation maintained by the treating physician must clearly document the medical necessity to initiate intravenous immune globulin therapy and the continued need thereof. Required documentation of medical necessity includes but is not limited to:

- History and physical; supporting physician rationale (current within the last 12 months)
- Physicians orders not more than 30 days old to date of service specifying dose, frequency, administration route and duration
- Office/progress note(s); that clearly document the necessity for both initiation and continuation of IVIG
- ICD-10-CM diagnosis codes supporting medical necessity must be submitted with each claim. Claims submitted without such evidence will be denied as not medically necessary.
- Documentation supporting the diagnosis
- A copy of applicable lab and procedure test results
- An accurate weight in kilograms should be documented prior to each infusion since the dosage is based mg/kg/dosage; and
Intravenous Immune Globulin

- Prior failed conventional therapies or documentation that conventional therapy is contraindicated
- Medication administration records

In addition, medical record documentation maintained by the treating physician for claims billed with a diagnosis of CVID must include the following: the initial presenting IgG levels and evidence that the patient has been vaccinated with Pneumovax and has had pre-and post-vaccine pneumococcal antibody titers performed to demonstrate the lack of ability to produce an antibody response to protein or carbohydrate antigens.

Documentation must include dual diagnoses listed for the underlying condition that demonstrates the medical necessity for intravenous immune globulin therapy.

Documentation must include a statement regarding lack of response to protein antigen.

For patients with HIV disease and ITP the medical record must specifically reflect that the patient has a platelet count of less than 30,000 and is actively bleeding. This must be supported by applicable lab results.

When IVIG is indicated in immunodeficient individuals (as defined above), with recurrent or chronic bacterial sinusitis, the medical record must document findings diagnostic of, or highly suggestive of, recurrent or chronic bacterial sinus infection. Such findings may include, but are not limited to, fever, unilateral purulent nasal discharge and unilateral facial pain.” Absence of these findings will not preclude the use of IVIG, however, documentation will be considered insufficient to justify medical necessity when antibiotic therapy is prescribed routinely during the first few days of symptoms in the absence of these findings, or in the instance where antibiotic therapy is prescribed by phone without the benefit of an examination by a physician (or non-physician practitioner). IVIG is never indicated and therefore not reasonable and necessary for the treatment of simple rhinosinusitis, even in immunodeficient individuals. The medical record must substantiate the use of prolonged and/or recurrent antibiotic therapy in the treatment of these infections. Radiographic documentation of mucosal thickening of the paranasal sinuses, in and of itself, is not specific to bacterial sinusitis and as a sole finding will not be consideration sufficient documentation to support the use of IVIG.

For stiff-man syndrome documentation must support that the patient is under the care of a physician who is competent in the diagnosis of the syndrome. The current defined criteria for the diagnosis must be met. Patient would have demonstrated failed conservative treatment (such as benzodiazapines). The record must show the patients response to therapy after initial treatment (0 and 1 month). Documentation must support objective response for continued coverage each month or at longer intervals.

All documentation must support the criteria for coverage as set forth in the "Indications and Limitations of Coverage and/or Medical Necessity" section of this policy.

Utilization Guidelines

Where no dosage guidelines are provided in this LCD and that realizing dosage may vary based on a patient’s individual situation, the dosage must be in keeping with the recommended dosage in current literature and the standard of practice. Any time there is a departure from the standard dosing, the rationale for this must be documented in the medical record.

For stiff man syndrome initial coverage is limited to up to 2g of immune globulin per kilogram of body weight per month.

Sources of Information and Basis for Decision

First Coast Service Options, Inc. reference LCD number(s) – L28917, L29205, L29356


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U.S. Food and Drug Administration (FDA) website prescribing information and approval letter for Bivigam, Immune Globulin (2012).

U.S. Food and Drug Administration (FDA) website prescribing information and approval letter for Gammaplex, Immune Globulin (2009).


Start Date of Comment Period

N/A

End Date of Comment Period
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N/A

Start Date of Notice Period

N/A

Revision History

Revision History Number: R4

Revision Number: 4
Publication: September 2017 Connection
LCR A/B2017-038

Explanation of Revision: Based on CR 10153 (Annual 2018 ICD-10-CM Update) the LCD was revised. Descriptor revised for ICD-10-CM diagnosis codes M33.00, M33.19. The effective date of this revision is based on date of service.

Revision History Number: R3

Revision Number: 3
Publication: January 2017 Connection
LCR A/B2016-114

Explanation of Revision: Based on a reconsideration request, this LCD was revised to add ICD-10 code T86.11 to the “ICD-10 Codes that Support Medical Necessity” section of the LCD for the HCPCS codes listed in the LCD. The effective date of this revision is based on date of service.

Revision History Number: R2

Revision Number: 2
Publication: September 2016 Connection
LCR A/B2016-093

Explanation of Revision: Based on a reconsideration request, the “Indications and Limitations of Coverage and/or Medical Necessity” section of the LCD was revised to include IVIG as an alternative treatment for patients with autoimmune optic neuropathy unresponsive to corticosteroids. Also, ICD-10-CM code H46.8 was added to the “ICD-10 Codes that Support Medical Necessity” section of the LCD. In addition, the “Sources of Information and Basis for Decision” section of the LCD was updated. The effective date of this revision is based on date of service.

Revision History Number: R1

Revision Number: 1
Publication: December 2015 Connection
LCR A/B2016-013

Explanation of Revision: Annual 2016 HCPCS Update. HCPCS code J1575 was added. The effective date of this revision is based on date of service.

Revision Number: Original

This LCD replaces all previous LCD versions (refer to “Sources of Information and Basis for Decision” section of the LCD) and publications on this subject to comply with ICD-10-CM based on Change Request 8112. The effective date of this LCD is based on date of service.
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Related Documents
N/A

LCD Attachments
N/A

Document formatted: 09/05/2017 (RC/NM/dc)