Intravenous Immune Globulins (IVIG)

**Intravenous Immune Globulin (IVIG):** Bivigam, Carimune NF, Flebogamma DIF, Gammagard Liquid, Gammagard S/D, Gammaked, Gammaplex, Gamunex-C, Octagam, and Privigen

**Subcutaneous Immune Globulin:** Hizentra and HyQvia

**Line(s) of Business:**
- HMO; PPO; QUEST Integration
- Akamai Advantage

**Original Effective Date:** 05/21/1999

**Current Effective Date:** 10/01/2015

**POLICY**

**A. 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
- Chronic inflammatory demyelinating polyneuropathy
- Multifocal motor neuropathy
- Kawasaki syndrome
- B-cell chronic lymphocytic leukemia

*Subcutaneous immune (SCIG) globulin is covered only for the treatment of primary immunodeficiencies for members who are not able to tolerate intravenous immune globulin (IVIG).

**COMPENDIAL USES**

- Prevention of graft-versus-host disease and infections in bone marrow transplant (BMT)/hematopoietic stem cell transplant (HSCT) recipients
- Secondary immunodeficiency due to drugs/biologic agents, underlying disease, environmental exposure, or other causes
- Prevention of infections in pediatric human immunodeficiency virus (HIV) infection
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- Dermatomyositis
- Guillain-Barre syndrome
- Fetal alloimmune thrombocytopenia
- Myasthenia gravis
- Autoimmune mucocutaneous blistering diseases: pemphigus vulgaris, pemphigus foliaceus, bullous pemphigoid, mucous membrane pemphigoid, and epidermolysis bullosa acquisita

OTHER COVERED INDICATIONS
- ITP in pregnancy
- Bone marrow/hematopoietic stem cell transplant recipients at risk for cytomegalovirus (CMV) infection
- Kidney/hematopoietic stem cell transplant recipients – treatment of rejection (antibody mediated)
- Multiple myeloma
- Children with HIV who are less than 13 years of age
- Dermatomyositis
- Polymyositis
- Relapsing-remitting multiple sclerosis
- Guillain-Barre syndrome
- Myasthenia gravis
- Lambert-Eaton myasthenic syndrome
- Stiff-man syndrome
- Autoimmune mucocutaneous blistering diseases: pemphigus vulgaris, pemphigus foliaceus, bullous pemphigoid, mucous membrane pemphigoid, and epidermolysis bullosa acquisita
- Autoimmune retinopathy

B. REQUIRED DOCUMENTATION
For the diagnosis of primary immunodeficiency, the following information is necessary to initiate the prior authorization review:
- Laboratory evidence of immunoglobulin deficiency, which may include the following:
  - Agammaglobulinemia (total IgG less than 200 mg/dL)
  - Persistent hypogammaglobulinemia (total IgG less than 400 mg/dL, or at least two standard deviations below normal, on at least two occasions)
  - Absence of B lymphocytes
- Inability to mount an adequate antibody response to inciting antigens, which may include the following:
  - Lack of appropriate rise in antibody titer following provocation with a polysaccharide antigen. For example, an adequate response to the pneumococcal vaccine may be defined as at least a 4-fold increase in titers for at least 50% of serotypes tested.
  - Lack of appropriate rise in antibody titer following provocation with a protein antigen. For example, an adequate response to tetanus/diphtheria vaccine may be defined as less than a 4-fold rise in titers 3-4 weeks after vaccine administration.
B. REQUIRED DOCUMENTATION

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

- For subcutaneous immune globulin, documentation supporting the member’s inability to tolerate intravenously administered immune globulin

- For primary immunodeficiency
  - Laboratory evidence of immunoglobulin deficiency (see Appendix)
  - Laboratory evidence of inability to mount an adequate response to inciting antigens (see Appendix)

- For chronic inflammatory demyelinating polyneuropathy
  - Clinical notes documenting functional disability
  - Electromyography (EMG)/nerve conduction study (NCS) report
  - Spinal fluid protein and/or nerve biopsy report

- If therapy beyond the initial authorized duration is required, an extension request must be submitted with the physician’s updated orders, clinical information substantiating that IVIG is effective, and the need for the extension.
  - For CIDP following the initial treatment regimen, documentation that demonstrates significant improvement in clinical condition and, when relevant, a reduction in the level of sensory loss must be submitted.
  - For the long-term treatment of stable CIDP patients, documentation that the dose has been periodically reduced or withdrawn, and the effects measured, in order to validate continued use must be submitted.

- For Guillain-Barre syndrome
  - Pulmonary function test, or
  - Clinical notes documenting the patient’s functional status and course of illness

- Multifocal motor neuropathy
  - Anti-GM1 antibodies and conduction block
  - Conventional therapies that were tried and found to be ineffective, not tolerated or contraindicated

V. CRITERIA FOR APPROVAL — INTRAVENOUS IMMUNE GLOBULIN

23. Primary immunodeficiency (includes congenital agammaglobulinemia (X-linked agammaglobulinemia), hypogammaglobulinemia, common variable immunodeficiency, X-linked immunodeficiency with hyperimmunoglobulin M, severe combined immunodeficiency and Wiskott-Aldrich syndrome)

a. Initial authorization for 12 months may be granted for members who meet the following criteria:
  - Laboratory evidence of immunoglobulin deficiency (see Appendix)
  - Documented inability to mount an adequate response to inciting antigens (see Appendix)
  - Persistent and severe infections despite treatment with prophylactic antibiotics

bb. Authorization for 12 months may be granted for continuation of therapy.
Secondary immunodeficiency due to drugs/biologic agents, underlying disease, environmental exposure, or other causes

ff. Initial authorization for 12 months may be granted for members who meet the following criteria:
   --- Laboratory evidence of immunoglobulin deficiency (see Appendix)
   --- Documented inability to mount an adequate response to inciting antigens (see Appendix)
   --- Persistent and severe infections despite treatment with prophylactic antibodies

jj. Authorization for 12 months may be granted for continuation of therapy.

Chronic inflammatory demyelinating polyneuropathy (CIDP)

mm. Initial authorization for 3 months may be granted for members who meet the following criteria:
   xl. Significant functional disability
   xli. Slowing of nerve conduction velocity on EMG or NCS
   xlii. Elevated spinal fluid protein on lumbar puncture or a nerve biopsy confirming the diagnosis

qq. Authorization of 12 months for continuation of treatment may be granted when member demonstrates significant improvement in clinical condition and, when relevant, a reduction in the level of sensory loss.

rr. For members receiving treatment with IVIG for 2 years or more, authorization of 6 months may be granted when IVIG dose reduction or withdrawal has been periodically attempted and the effects measured to validate continue use.

Multifocal motor neuropathy

uu. Initial authorization for 6 months may be granted for members who meet the following criteria:
   xlviii. Conduction block on EMG/NCS
   xlix. Elevated anti-GM1 antibody titers
   l. Conventional therapy was ineffective or not tolerated.

yy. Authorization of 12 months for continuation of therapy may be granted for members who experience significant improvement in disability and maintenance of improvement with IVIG therapy.

Guillain-Barre syndrome

bbb. Authorization for 6 months may be granted for members who meet the following criteria:
   lv. Plasma exchange is not available or is not an appropriate treatment option
   lvi. Member has one of the following clinical features
      0). Deteriorating pulmonary function tests
      0). Rapid deterioration with symptoms for less than 2 weeks
      0). Rapidly deteriorating ability to ambulate
      0). Frank inability to ambulate independently for 10 meters
63. **Dermatomyositis**

III. Initial authorization for 6 months may be granted for members whose condition has failed to respond to first-line treatment with corticosteroids.

mmmm. Authorization of 12 months for continuation of therapy may be granted for members experience significant improvement in disability and maintenance of improvement with IVIG therapy.

67. **Myasthenia gravis**

pppp. Authorization for 3 months may be granted for members who are experiencing a myasthenic crisis (ie, acute episode of respiratory muscle weakness) and plasma exchange is not available or is not an appropriate option.

qqqq. Initial authorization for 6 months may be granted for members with chronic debilitating myasthenia gravis who have experienced an inadequate response or toxicity from treatment with cholinesterase inhibitors, corticosteroids, and/or azathioprine.

rrrr. For chronic debilitating disease, authorization of 12 months for continuation of therapy may be granted for members who experience significant improvement in disability and maintenance of improvement with IVIG therapy.

72. **Autoimmune mucocutaneous blistering disease**

uuuu. Authorization for 6 months may be granted for members who meet both of the criteria (i. and ii.):

—— Member has one of the following:

) Pemphigus vulgaris

) Pemphigus foliaceus

) Bullous pemphigoid

) Mucous membrane pemphigoid (cicatrical pemphigoid, benign mucous membrane pemphigoid), with or without mention of ocular involvement

) Epidermolysis bullosa acquisita

—— Member has severe progressive disease despite treatment with conventional therapy (eg, corticosteroids, azathioprine, or cyclophosphamide).

82. **Kawasaki syndrome**

eeeee. Authorization for 6 months may be granted for members with Kawasaki syndrome and will be used in conjunction with aspirin.

85. **Bone marrow/hematopoietic stem cell transplant recipients (BMT/HSCT)**

hhhhh. Authorization for up to 100 days after BMT/HSCT may be granted for members who the following criteria:

lxxxvii. IVIG is prescribed for prevention of graft-versus-host disease after allogeneic BMT/HSCT, or for prevention of infection after BMT/HSCT

lxxxviii. Member is age 20 years or older

lxxix. IVIG is requested for use within 100 days after transplantation (the date of transplantation must be documented)
91. **Pediatric HIV infection**
nnnn. Initial authorization for 6 months may be granted for members who meet the following criteria:
   xciii. IVIG is prescribed for prevention of infections associated with HIV infection
   xcv. Members is less than or equal to 12 years of age
   qqqq. Authorization of 6 months for continuation of therapy may be granted for members experience a reduction in infections with IVIG therapy.

97. **Chronic lymphocytic leukemia (CLL)**
tttt. Initial authorization for 6 months may be granted for members who meet the following criteria:
   xcix. IVIG is prescribed for prevention of infections associated with CLL
c. Member has hypogammaglobulinemia prior to starting IVIG therapy
ci. Member has a history or recurrent bacterial infections prior to starting IVIG therapy
   xxxx. Authorization of 6 months for continuation of therapy may be granted for members experience a reduction in infections with IVIG therapy.

ZZZZ. **CRITERIA FOR APPROVAL – SUBCUTANEOUS IMMUNE GLOBULIN**
105. **Primary immunodeficiency (includes congenital agammaglobulinemia (X-linked agammaglobulinemia), hypogammaglobulinemia, common variable immunodeficiency, X-linked immunodeficiency with hyperimmunoglobulin M, severe combined immunodeficiency and Wiskott-Aldrich syndrome)**
   bbbbbb. Initial authorization for 12 months may be granted for members who meet the following criteria:
   — Member is unable to tolerate intravenously administered immune globulin
   — Laboratory evidence of immunoglobulin deficiency (see Appendix)
   — Documented Inability to mount an adequate response to inciting antigens (see Appendix)
   — Persistent and severe infections despite treatment with prophylactic antibiotics
   ggggg. Authorization for 12 months may be granted for continuation of therapy.

IIII. **APPENDIX – Primary Immunodeficiency Syndromes.**
The diagnosis of immunodeficiency and post immunization titers must be taken in context with the clinical presentation of the patient and may vary dependent on the type of vaccine given and the prior immunization history of the patient. The following parameters are examples of criteria for diagnosis of the primary immunodeficiency syndromes.

116. **Laboratory evidence of immunoglobulin deficiency may include the following**
   — Agammaglobulinemia (total IgG less than 200 mg/dL)
   — Persistent hypogammaglobulinemia (total IgG less than 400 mg/dL, or at least two standard deviations below normal, on at least two occasions)
   — Absence of B lymphocytes

121. **Inability to mount an adequate antibody response to inciting antigens may include the definitions:**
   — Lack of appropriate rise in antibody titer following provocation with a polysaccharide antigen. For example, an adequate response to the pneumococcal vaccine may be defined as at least a 4-fold increase in titers for at least 50% of serotypes tested.
Lack of appropriate rise in antibody titer following provocation with a protein antigen. For example, an adequate response to tetanus/diphtheria vaccine may be defined as less than a 4-fold rise in titers 3-4 weeks after vaccine administration.

CONTINUATION OF THERAPY
Members starting therapy as well as new members not previously authorized by CVS/HMSA must meet ALL initial authorization criteria.

DOSAGE AND ADMINISTRATION
Approvals may be subject to dosing limits in accordance with FDA-approved labeling, accepted compendia, and/or evidence-based practice guidelines.

CRITERIA FOR APPROVAL
For Akamai Advantage members, the following National Coverage Determination and Local Coverage Determination (LCD)policies apply:
- Intravenous Immune Globulin (IVIG) (L33532 L34314)
- Intravenous Immune Globulin for the Treatment of Autoimmune Mucocutaneous Blistering Diseases (250.3)

CONTINUATION OF THERAPY
Authorization for 3 to 12 months depending on indication may be granted for continuation of therapy.

ADMINISTRATIVE GUIDELINES
Precertification is required. Please refer to the HMSA medical policy web site for the fax form.

IMPORTANT REMINDER
The purpose of this Medical Policy is to provide a guide to coverage. This Medical Policy is not intended to dictate to providers how to practice medicine. Nothing in this Medical Policy is intended to discourage or prohibit providing other medical advice or treatment deemed appropriate by the treating physician.

Benefit determinations are subject to applicable member contract language. To the extent there are any conflicts between these guidelines and the contract language, the contract language will control.

This Medical Policy has been developed through consideration of the medical necessity criteria under Hawaii’s Patients’ Bill of Rights and Responsibilities Act (Hawaii Revised Statutes §432E-1.4), generally accepted standards of medical practice and review of medical literature and government approval status. HMSA has determined that services not covered under this Medical Policy will not be medically necessary under Hawaii law in most cases. If a treating physician disagrees with HMSA’s determination as to medical necessity in a given case, the physician may request that CVS/caremark reconsider the application of the medical necessity criteria to the case at issue in light of any supporting documentation.

REFERENCES
Intravenous Immune Globulins (IVIG)


**Document History**

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<th>Description</th>
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<td>Original effective date</td>
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<tr>
<td>05/2017</td>
<td>Annual review</td>
</tr>
<tr>
<td>12/01/2017</td>
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