

Medicare Advantage Utilization Review Policy

	Immune Globulin Intravenous Utilization Management Medical Policy		
Policy:		Asceniv [™] (immune globulin intravenous liquid-sira – ADMA Biologics)	
		Bivigam [®] (immune globulin intravenous – AMDA Biologics)	
	•	Flebogamma® DIF (immune globulin intravenous – Grifols USA)	
		Gammagard Liquid, Gammagard S/D < 1 mcg/mL in 5% solution (immune	
		globulin intravenous – Baxalta US)	
		Gammaked [™] (immune globulin intravenous caprylate/chromatography	
		purified – Kedrion Biopharma)	
		Gammaplex [®] (immune globulin intravenous – BPL)	
		Gamunex [®] -C (immune globulin intravenous caprylate/chromatography	
		purified – Grifols USA)	
		Octagam [®] (immune globulin intravenous – Octapharma)	
		Panzyga® (immune globulin intravenous-ifas – Octapharma USA)	
	•	Privigen [®] Liquid (immune globulin intravenous – CSL Behring)	
DATE:		12/7/2022	
Applicable Lines of Business:		Medicare Advantage - Medical	
Applicable States:		NGS, J6: Wisconsin, Minnesota, Illinois	
		NGS, JK: New York, Connecticut, Massachusetts, Maine, New	
		Hampshire, Rhode Island, Vermont	

OVERVIEW

Immune globulin intravenous (IVIG) products are concentrated human immunoglobulins, primarily immunoglobulin G (IgG).

All of these products (except Octagam 10%) are FDA-approved for replacement therapy in patients with primary immune deficiencies due to defects in humoral immunity. The following indications are FDA approved:

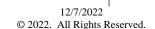
- **B-cell chronic lymphocytic leukemia (CLL)**, for prevention of infections in patients with hypogammaglobulinemia and/or recurrent infections.^{6,18,21}
- **Chronic inflammatory demyelinating polyneuropathy (CIDP)**, to improve neuromuscular disability and impairment and for maintenance therapy to prevent relapse.^{7,9,12,15,67}
- **Dermatomyositis (or polymyositis)**. Octagam 10% is indicated for the treatment of dermatomyositis in adults.¹¹ Patients with dermatomyositis treated with Octagam were under treatment with corticosteroids and/or maximally two immune-suppressants OR patients had previous failure or intolerance with a corticosteroid and at least one additional immunosuppressive drug.³³ IVIG may be considered amongst the treatment options for patients with polymyositis not responding to first line immunosuppressive treatment.³²
- **Idiopathic (immune) thrombocytopenic purpura (ITP)**, acute and chronic, when a rapid rise in platelet count is needed to prevent and/or control bleeding or to allow a patient with ITP to undergo surgery.^{2,4,6-9,11,12,15,23-25}
- **Kawasaki disease** in pediatric patients for the prevention of coronary artery aneurysm.^{6,26} The American Heart Association and the American Academy of Pediatrics recommend initial therapy 2 g of IVIG per kg as a single intravenous (IV) dose given over 10 to 12 hours.^{26,27} The dose can be repeated if needed.
- **Multifocal motor neuropathy** in adults as maintenance therapy to improve muscle strength and disability.⁵
- **Primary humoral immune deficiency (PID)**, for replacement therapy, including but not limited to the humoral immune defect in the following conditions: common variable immunodeficiency,

X-linked agammaglobulinemia [congenital agammaglobulinemia], Wiskott-Aldrich Syndrome, and severe combined immunodeficiencies.^{1-10,12,15,16,25} Gammagard Liquid 10%, Gammaked, and Gamunex-C may be administered via IV or subcutaneous infusion for primary immunodeficiency.^{5,7,9} IVIG is also indicated for measles prophylaxis in individuals with PID who have been exposed to measles or who are at high risk of measles exposure.^{3,4,7-10,12,13,17,24,45}

IVIG is prepared from pooled plasma collected from a large number of human donors.^{1-12,15,16,25} The donors in a typical pool of plasma have a wide range of antibodies against infectious agents. These products have IgG subclasses similar to that found in normal humans. Asceniv contains not only antibodies which satisfy the requirement to treat patients with PID, it also has elevated levels of respiratory syncytial virus (RSV) antibodies.¹⁹

IVIG also is used for many off-label indications. Much of the evidence for clinical effectiveness of IVIG is anecdotal (i.e., case reports, open series, or cohort studies). Some conditions have been studied in controlled trials. Usually IVIG is indicated only if standard approaches have failed, become intolerable, or are contraindicated.

- Antibody-mediated rejection (AMBR) in transplantation: Current strategies for treatment of antibody-mediated rejection include plasmapheresis, IVIG, and T-cell or B-cell-depleting agents.⁷⁵ Although there are no controlled trials regarding the most appropriate treatments, the benefits of immune globulin have been well described and has been used as the standard-of-care (along with plasmapheresis) in multiple studies.^{18,76} Clinical practice guidelines (2009 Kidney Disease: Improving Global Outcomes) recommends a combination of corticosteroids, plasmapheresis, IVIG, and anti-CD20 antibody and lymphocyte-depleting antibody for antibody-mediated rejection.^{76,77} As in desensitization therapy, much of the information for IVIG use is in patients with kidney transplants, but the same principles apply to transplantation of other organs and tissues. Immune globulin has been used in lung transplant patients to treat ABMR^{20,4479} and a scientific statement from the American Heart Association states that primary therapy for ABMR in patients with heart transplants may include IVIG, plasmapheresis, high-dose corticosteroids, and anti-lymphocyte antibodies.³⁶
- Autoimmune mucocutaneous blistering diseases (pemphigus vulgaris, pemphigus foliaceus, bullous pemphigoid, mucous membrane pemphigoid [cicatricial pemphigoid], and epidermolysis bullosa acquisita): Conventional therapy (a systemic corticosteroid and an immunosuppressive agent) is started at the same time or before IVIG. Many case reports and uncontrolled case series suggest benefit of IVIG in patients with recalcitrant disease or in those with contraindications to conventional therapy.²⁸⁻³⁰ International expert recommendations for the management of pemphigus note that first-line treatment includes corticosteroids and anti-CD20 monoclonal antibodies. First-line corticosteroid-sparing agents include azathioprine and mycophenolate mofetil and other corticosteroid-sparing agents include IVIG.²
- **Cytomegalovirus (CMV) pneumonia in patients with cancer or transplant-related infection:** For CMV pneumonia, therapy consists of ganciclovir IV injection (or foscarnet IV injection if CMV is ganciclovir-resistant). The National Comprehensive Cancer Network (NCCN) guidelines on prevention and treatment of cancer-related infections (version 2.2022 – August 19, 2022) note IVIG may be added to ganciclovir or foscarnet for treatment of CMV pneumonia.³¹
- **Desensitization therapy prior to and immediately after transplantation:** Most of the information on use of IVIG for desensitization is in patients with kidney transplantation but many of the same principles apply to transplantation of other organs and tissues.^{34,35} Current protocols include using low-dose IVIG with plasma exchange or high-dose IVIG with or without B-cell depletions with rituximab (for IV infusion).¹⁸



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- **Guillain Barre syndrome (GBS):** The American Academy of Neurology recommends IVIG in patients who require aid to walk within 2 or 4 weeks from the onset of neuropathic symptoms.³⁷ The effect of IVIG in GBS has only been investigated in randomized controlled trials in patients who are unable to walk at nadir (i.e., severely affected patients), not in mildly affected patients who are able to walk unaided at nadir.³⁸ IVIG is not indicated or proven to be effective in patients mildly affected with GBS.^{32,38}
- Hematologic neoplasm-associated hypogammaglobulinemia or hypogammaglobulinemia after B-cell targeted therapies (secondary immunodeficiency): Clinical guidelines for immunoglobulin use by the National Health Service- England note secondary antibody deficiency can be hypogammaglobinemia associated with therapeutic monoclonals targeted at B-cells and plasma cells, non-Hodgkin's lymphoma, CLL, multiple myeloma, or other relevant B-cell malignancies.²⁷ NCCN guidelines regarding management of immunotherapy-related toxicities (version 1.2022 February 28, 2022) recommends that after anti-CD19 chimeric antigen receptor (CAR)-T cell therapy, IVIG replacement should be considered for patients with serum IgG levels < 400 to 600 mg/dL and serious or recurrent infections.⁷³
- Hematopoietic cell transplantation (HCT) to prevent infections: HCT is defined as transplantation of any blood- or marrow-derived hematopoietic stem cells, regardless of transplant type (i.e., allogeneic or autologous) or cell source (i.e., bone marrow, peripheral blood, or umbilical cord blood). With regard to IVIG, guidelines recommend IVIG for prevention or preemptive treatment of specific infections in HCT recipients.³⁹ In adult or adolescent HCT recipients (allogeneic or autologous), IVIG is used to prevent infections in those with severe hypogammaglobulinemia (i.e., serum IgG < 400 mg/dL) during the first 100 days after HCT. In pediatric patients, IVIG is indicated in those with an allogeneic HCT if hypogammaglobulinemia is severe during the first 100 days after HCT. For prevention of infections beyond 100 days post-HCT (allogeneic or autologous), IVIG is recommended in recipients with severe hypogammaglobulinemia (i.e., serum IgG < 400 mg/dL). Guidelines from the American Society for Blood and Marrow Transplantation make recommendations for IVIG dosing in HCT recipients to prevent infectious complications.³⁹ During the first 100 days after HCT, the dose in adults and adolescents is 0.5 g/kg per week. The IVIG dose should be individualized to maintain trough (predose) serum IgG greater than 400 to 500 mg/dL. The dose in allogeneic pediatric HCT patients is 0.4 g/kg per month, adjusted to keep IgG > 400 mg/dL. Higher and more frequent dosing may be necessary in patients for prevention of early disease after HCT because the half-life of IVIG is reduced to between 1 to 10 days in this population. Dosing for > 100 days post-HCT is 0.5 g/kg given every 3 to 4 weeks. The dose is not adjusted using serum IgG level in patients with multiple myeloma or malignant macroglobulinemia. NCCN guidelines on prevention and treatment of cancer-related infections discussed similar recommendations.³¹
- Human immunodeficiency virus (HIV)- or Hepatitis C-associated thrombocytopenia: Secondary ITP can occur in patients with HIV infection.^{23,24} It can also occur in patients with Hepatitis C. The American Society of Hematology (ASH) guidelines for ITP recommend initial treatment with corticosteroids, IVIG, or Rh0(D) immune globulin for patients with secondary ITP due to HIV. ASH also recommends IVIG for secondary ITP associated with Hepatitis C.^{23,24}
- **HIV-infected infants and children to prevent recurrent infections:** IVIG is recommended to prevent serious bacterial infections in HIV-infected children who have hypogammaglobulinemia (immunoglobulin G < 400 mg/dL).⁴⁰ Clinicians providing care for adolescents are advised to use the US Department of Health and Human Services Adult and Adolescent HIV-guideline for the care of post-pubertal adolescents (sexual maturity rating [SMR] four and five) and to use the pediatric guideline for guidance on the care of adolescents at SMR 3 or lower.⁴⁰
- Immunotherapy-related toxicities associated with checkpoint inhibitor therapy: NCCN guidelines for the management of immunotherapy-related toxicities (version 1.2022 February 28,

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2022) recommend IVIG for the management of severe pneumonitis after 48 hours of methylprednisolone therapy; as treatment for severe myasthenia gravis; encephalitis; cardiovascular adverse events; musculoskeletal adverse events; moderate or severe GBS; transverse myelitis; bullous dermatitis; and Stevens-Johnson syndrome/toxic epidermal necrolysis.⁷³ The American Society of Clinical Oncology (ASCO) also has practice guidelines on the management of immune-related adverse events in patients treated with checkpoint inhibitor therapy.⁷⁴ These practice guidelines address the above mentioned indications along with other conditions (e.g., severe cutaneous adverse reactions, myositis, autoimmune hemolytic anemia, immune thrombocytopenia).

- Lambert-Eaton Myasthenic Syndrome: Limited but moderate- to high-quality evidence from randomized controlled trials have shown that 3,4-diaminopyridine or IVIG was associated with improved muscle strength score and compounded muscle action potential amplitudes. IVIG may be used as an alternative in patients who do not respond or do not tolerate other therapies.¹⁸
- **Multiple myeloma:** Patients with multiple myeloma are often functionally hypogammaglobulinemic with total immunoglobulin production being elevated, but the repertoire of antibody production restricted.³¹ The NCCN guidelines on multiple myeloma (version 1.2023 September 14, 2022) notes that IVIG should be considered in the setting of recurrent, serious infections and/or hypogammaglobulinemia (immunoglobulin G < 400 mg/dL).⁴²
- **Multiple sclerosis, acute severe exacerbation or relapses:** Medication options for relapse management include high dose corticosteroids, intramuscular adrenocorticotrophic hormone, plasmapheresis, and IVIG. IVIG is sometimes used to treat relapses that do not respond to corticosteroids.⁴³ During pregnancy, relapses severe enough to require treatment can be safety managed with a short-term course of corticosteroids after the first trimester. Methylprednisolone is the preferable agent because it is metabolized before crossing the placenta.⁴³
- **Myasthenia gravis:** Recommendations from an international consensus guidance statement for management of adult or juvenile myasthenia gravis include the use of IVIG in some patients.⁶⁵ Symptomatic and immunosuppressive treatment of myasthenia gravis includes pyridostigmine as initial therapy in most patients. Corticosteroids or immunosuppressive therapies are used in all patients with myasthenia gravis who have not met treatment goals after an adequate trial of pyridostigmine. A nonsteroidal immunosuppressive agent (e.g., azathioprine, cyclosporine, mycophenolate mofetil, methotrexate, tacrolimus) should be used alone when corticosteroids are contraindicated or refused. In patients with refractory myasthenia gravis, chronic IVIG and chronic plasma exchange (PLEX), cyclophosphamide, or rituximab may be used. PLEX and IVIG are recommended as short-term treatments in patients with myasthenia gravis with life-threatening effects such as respiratory insufficiency or dysphagia; to prepare for surgery in patients with significant bulbar dysfunction; when rapid response is needed; when other treatments are not adequate: and before starting corticosteroids if necessary to prevent or minimize exacerbations. IVIG can be considered as maintenance therapy in patients with refractory myasthenia gravis or in patients with relative contraindications to immunosuppressive agents. Refractory myasthenia gravis is defined as the post intervention status is unchanged or worse after corticosteroids and at least two other immunosuppressive agents used in adequate doses for an adequate duration, with persistent symptoms or side effects that limit functioning as defined by the patient or physician. The international consensus guidance statement for myasthenia gravis⁶⁵ recommends an initial dose of 2 g/kg given in divided doses over 2 to 5 days. For maintenance therapy, the recommended dose is 0.4 to 1 g/kg given every 4 weeks; an attempt to decrease frequency can be made over time. If additional treatment is required, the dose should be adjusted based on the response.
- **Passive immunization for measles (post-exposure prophylaxis):** When administered within 6 days of exposure, immune globulin (IG) can prevent or modify measles in patients who are nonimmune.¹³ IG therapy is not indicated in persons who have received one dose of measles-

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containing vaccine at ≥ 12 months, unless the patient is severely immunocompromised. The Advisory Committee on Immunization Practices recommends the use of IG therapy for post-exposure prophylaxis of measles in the following patients who are at risk for severe disease and complication from measles: infants < 12 months of age; pregnant women without evidence of measles immunity; and severely immunocompromised persons.¹³ For infants < 12 months of age, intramuscular IG is used; infants 6 through 11 months of age can receive measles, mumps and rubella vaccine instead of IG if given within 72 hours of exposure. IVIG is used for pregnant women and severely immunocompromised patients. ACIP recommends 400 mg/kg as an IV infusion.¹³

- Post-exposure prophylaxis for varicella OR treatment or post-exposure prophylaxis for tetanus: Children infected with HIV without a history of previous chickenpox OR children who have not received two doses of varicella vaccine should receiving VariZIG[®] or, if not available, IVIG within 10 days after close contact with a person who has chickenpox or shingles.^{41,46} VariZIG is indicated for post-exposure prophylaxis in certain patients without immunity to varicella and is given as soon as possible after exposure, preferable within 4 days, and as late as 10 days after exposure.⁴⁷ In situations where administration of VariZIG does not appear possible within 10 days of exposure⁴⁸ (and ideally within 96 hours of exposure).⁴⁰ The dose is 400 mg/kg given once.^{40,41,46} Per the CDC, if tetanus immune globulin is not available, clinicians can use immune globulin at a dose of 200 to 400 mg/kg.⁴⁸
- **Parvovirus B19 infection and pure red blood cell aplasia, immunologic subtype:** In immunosuppressed patients lacking neutralizing antibodies, IVIG has been useful for the treatment of persistent B19 infection.⁴⁹ The guidelines from the American Society of Transplantation Infectious Diseases Community of Practice state that IVIG is frequently used for the treatment of solid organ transplant recipients with symptomatic parvovirus B19 infection.⁶⁶ A Canadian expert panel of hematologists recommend prednisone followed by cyclophosphamide or cyclosporine as first-line therapy for immunologic type pure red blood cell aplasia.²² The panel considers IVIG a reasonable second-line option for this serious condition.
- Stiff-Person Syndrome (Moersch-Woltman Syndrome): Per the European Federation of Neurological Societies, IVIG should be reserved for patients who have no symptomatic relief after the use of diazepam and/or baclofen and have severe disability in carrying out daily activities.³²
- **Thrombocytopenia, feto-neonatal alloimmune:** Antenatal therapy with IVIG administered to the mother is effective in increasing fetal platelet counts in neonatal alloimmune thrombocytopenia.^{50,51} First-line therapy for newborns with fetal/neonatal alloimmune thrombocytopenia is antigen-negative compatible platelets; IVIG is adjunctive therapy.

POLICY STATEMENT

Prior authorization is recommended for medical benefit coverage of IVIG products Approval is recommended for those who meet the **Criteria** and **Dosing** for the listed indications. Extended approvals are allowed if the patient continues to meet the Criteria and Dosing. All approvals are provided for the duration noted below. In cases where the approval is authorized in months, 1 month is equal to 30 days. If the prescriber is switching between IVIG products and a case has already been approved by a clinician, a new approval may be entered without another clinical review. The new approval should only be extended for the remaining doses and duration which were granted on the original review. The indication or dosing is different, a new clinical review would need to be completed.



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This policy incorporates Medicare coverage guidance as set forth in National Coverage Determinations (NCDs) and Local Coverage Determinations (LCDs), as well as in companion policy articles and other guidance applicable to the relevant service areas. These documents are cited in the References section of this policy. In some cases, this guidance includes specific lists of HCPCS and ICD-10 codes to help inform the coverage determination process. The Articles that include specific lists for billing and coding purposes will be included in the Reference section of this policy. However, to the extent that this policy cites such lists of HCPCS and ICD-10 codes, they should be used for reference purposes only. The presence of a specific HCPCS or ICD-10 code in a chart or companion article to an LCD is not by itself sufficient to approve coverage. Similarly, the absence of such a code does <u>not</u> necessarily mean that the applicable condition or diagnosis is excluded from coverage.

<u>Note</u>: Conditions for coverage outlined in this Medicare Advantage Medical Policy may be less restrictive than those found in applicable National Coverage Determinations, Local Coverage Determinations and/or Local Coverage Articles. Examples of situations where this clinical policy may be less restrictive include, but are not limited to, coverage of additional indications supported by CMS-approved compendia and the exclusion from this policy of additional coverage criteria requirements outlined in applicable National Coverage Determinations, Local Coverage Articles.

RECOMMENDED AUTHORIZATION CRITERIA

Coverage of IVIG products is recommended in those who meet one of the following criteria.

FDA-Approved Indications

1. Primary Immunodeficiencies.

Criteria. Approve for the duration noted if the patient meets ONE of the following (A <u>or</u> B):

- A) <u>Initial Therapy</u>: Approve for 1 year if the patient meets ONE of the following (i, ii, or iii): <u>NOTE</u>: An exception can be made for the impaired antibody response if, according to the prescriber, the delay caused by pre-vaccination and post-vaccination antibody measurement would be deleterious to the patient's health.
 - i. The patient has a diagnosis of congenital agammaglobulinemia, X-linked agammaglobulinemia, other agammaglobulinemia due to the absence of B-cells, Wiskott-Aldrich syndrome, ataxia telangiectasia, DiGeorge syndrome, severe combined immunodeficiency (SCID), Hyper-Immunoglobulin M (IgM) syndromes, an IgG level lower than 250 mg/dL, or a primary immune deficiency which has been confirmed by genetic or molecular testing; OR
 - **ii.** The patient has a diagnosis of common variable immunodeficiency (CVID), unspecified hypogammaglobulinemia, or other immunodeficiencies with significant hypogammaglobulinemia and meets the following (1 and either 2 or 3):
 - (1) The patient's pretreatment IgG level is below the normal range (age-adjusted and according to the normal reference range for the reporting laboratory); AND
 - (2) The patient has an impaired antibody response (i.e., failure to produce antibodies to specific antigens); OR
 - (3) The patient has recurrent infections; OR
 - **iii.** The patient has an IgG subclass deficiency, selective antibody deficiency (SAD), or another confirmed primary immunodeficiency and meets the following (1 and 2):

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(1) The patient has an impaired antibody response (i.e., failure to produce antibodies to specific antigens); AND

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(2) The patient has recurrent infections; AND

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B) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 1 year if the patient has been diagnosed with a primary immunodeficiency and, according to the prescriber, is continuing to receive benefit from the product.

<u>Note</u>: Examples of continued benefit with the product includes increased IgG levels or prevention and/or controlling of infections.

Dosing. Approve the following dosing regimens (A, B, C, <u>or</u> D):

- A) An initial loading dose of 1 g/kg given intravenously one time; OR
- B) 0.2 g/kg to 0.8 g/kg given intravenously once every 3 to 4 weeks; OR
- C) The dose and interval between doses has been adjusted based on clinical response as determined by the prescriber; OR
- **D**) Patients with primary immune deficiency and exposure to measles (previous exposure or risk of future measles exposure), the minimum dose has been determined by the prescriber.

2. B-Cell Chronic Lymphocytic Leukemia for Prevention of Infections.

Criteria. Approve for the duration noted if the patient meets ONE of the following (A <u>or</u> B):

- A) Initial Therapy: Approve for 4 months if the patient meets the following criteria (i or ii):
 - i. The patient has an immunoglobulin G (IgG) level < 600 mg/dL (6.0 g/L); OR
 - **ii.** The patient has a history of recurrent infections.
- **B**) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 1 year if the patient has a positive response to therapy according to the prescriber.

<u>Note</u>: Examples of a positive response to therapy include maintaining an increased IgG trough level or a decrease in the number of infections.

Dosing. Approve the following dosing regimens (A, B, <u>or</u> C):

- A) 0.4 g/kg given intravenously every 3 to 4 weeks; OR
- **B**) 0.3 g/kg to 0.5 g/kg given intravenously once monthly; OR
- **C)** The dose and interval have been adjusted to maintain a trough (pre-dose) IgG level of greater than 500 mg/dL.

3. Chronic Inflammatory Demyelinating Polyneuropathy (CIDP) or Polyradiculoneuropathy.

Criteria. Approve for the duration noted if the patient meets ONE of the following (A <u>or</u> B):

- A) Initial Therapy: Approve for 3 months if electrodiagnostic studies support the diagnosis of CIDP.
- B) Patient is Currently Receiving Immune Globulin. Approve for 1 year if the patient has a clinically significant improvement in neurologic symptoms, as determined by the prescriber. Note: Examples of improvement in neurologic symptoms include improvement in disability; nerve conduction study results improved or stabilized; physical examination show improvement in neurological symptoms, strength, and sensation. The patient may not have a full response after the initial 3 months, but there should be some response.

Dosing. Approve the following dosing regimens (A, B, <u>or</u> C):

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- An initial loading dose of 2 g/kg given intravenously in divided doses over 2 to 4 consecutive days; OR
- **B)** A maintenance dose of 1 g/kg given intravenously over one day or divided into two doses of 0.5 g/kg given on 2 consecutive days. Either regimen is given every 3 weeks. OR

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C) The dose and interval are adjusted according to clinical response with a maximum dose per treatment course of 2 g/kg.

4. Dermatomyositis or Polymyositis.

Criteria. Approve for the duration noted if the patient meets ONE of the following (A <u>or</u> B):

- A) <u>Initial therapy</u>. Approve for 6 months if the patient meets both of the following (i, ii <u>and</u> iii):
 - i. Prior to starting <u>any</u> therapy, the patient meets one of the following (a or b):
 - **a.**Patient has or had an elevated creatinine kinase (CK) level, according to the prescriber; OR
 - **b.**Other measures support the diagnosis, according to the prescriber, including, but not limited to, skin manifestations, autoantibody testing, muscle biopsy results, electromyographic (EMG) findings; AND
 - **ii.** The patient has tried a systemic corticosteroid OR a corticosteroid is contraindicated according to the prescriber; AND
 - iii. The patient has tried an immunosuppressive agent OR an immunosuppressive agent is contraindicated according to the prescriber. Note: Examples of immunosuppressive agents include azathioprine, methotrexate, cyclosporine, cyclophosphamide, and mycophenolate mofetil.
- **B**) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 1 year if the patient has responded to therapy according to the prescriber.

<u>Note</u>: Examples of a response to therapy includes improved muscle strength, improved neuromuscular symptoms, and improved functional ability.

Dosing. Approve the following dosing regimens (A <u>or</u> B):

- A) 2 g/kg given intravenously in divided doses over 2 to 5 consecutive days every 4 weeks; OR
- **B**) 2 g/kg given intravenously in divided doses over 2 to 5 consecutive days every 2 to 3 weeks.

5. Immune Thrombocytopenia (ITP).

<u>Note</u>: The diagnosis of Immune Thrombocytopenia (ITP) encompasses previous nomenclature, such as Idiopathic Thrombocytopenia, Idiopathic Thrombocytopenic Purpura, Immune Thrombocytopenic Purpura.

Criteria. Approve for the duration noted if the patient meets ONE of the following (A, B, C, D <u>or</u> E): A) Initial Therapy: Adults \geq 18 Years of Age: Approve for 1 year if the patient meets ONE of the

- following (i, ii, or iii):
 - i. The patient has tried a systemic corticosteroid (e.g., prednisone); OR
- ii. There is an urgent need to increase the platelet count quickly; OR
- iii. A systemic corticosteroid is contraindicated according to the prescriber.
- **B**) <u>Initial Therapy Patient is < 18 Years of Age:</u> Approve for 1 year.
- C) <u>Initial Therapy To Increase Platelet Count Before Surgical Procedures or Dental Procedures</u>: Approve for 1 month.
- **D**) <u>Initial Therapy Pregnant Patient</u>: Approve for 6 months.
- E) <u>Patient is Currently Receiving Immune Globulin</u>: Approve for 1 year if the patient has responded to therapy according to the prescriber.



Note: Examples of responding to therapy include increased platelet counts, absence of significant bleeding, or preventing hemorrhage/ensuring an adequate platelet count in order for delivery in pregnant patients.

Dosing. Approve the following dosing regimens (A <u>or</u> B):

- A) Up to 1 g/kg on 2 consecutive days OR up to 0.4 g/kg on 5 consecutive days (up to a total of 2 g per kg per treatment course); OR
- **B**) The dose and interval between doses has been adjusted according to the platelet count and/or to prevent significant bleeding as determined by the prescriber.

6. Kawasaki Disease.

Criteria. Approve for 3 months.

Dosing. Approve up to 2 g/kg given intravenously as a single dose or over multiple consecutive days. The dose may be repeated if needed.

7. Multifocal Motor Neuropathy (MMN).

Criteria. Approve for the duration noted if the patient meets ONE of the following (A or B):

A) <u>Initial Therapy</u>: Approve for 6 months if the diagnosis is supported by weakness without sensory abnormalities, upper motor neuron signs, or marked bulbar involvement and meets one of the following (i, ii, or iii):

- i. The diagnosis is supported by nerve conduction studies that demonstrate motor conduction block or probable motor conduction block; OR
- **ii.** The prescriber has determined the patient has multifocal motor neuropathy without conduction block; OR
- iii. The diagnosis is supported by a motor nerve biopsy or by a magnetic resonance imaging (MRI) neurography.
- **B**) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 1 year if the patient has improvement in neurologic symptoms as determined by the prescriber.

<u>Note</u>: Examples of improvement in neurologic symptoms include improvement in disability; grip strength improvement (measured with dynamometer); physical examination show improvement in neurological symptoms and strength.

Dosing. Approve the following dosing regimens (A <u>or</u> B):

- A) Therapy is initiated with 2 g/kg given intravenously in divided doses over 2 to 5 consecutive days; OR
- **B**) One of the following maintenance dosing regimen is used (i, ii <u>or</u> iii):
 - i. 0.5 g/kg to 2.4 g/kg given intravenously every month; OR
 - ii. 1 g/kg given intravenously every 2 to 4 weeks; OR
 - **iii.** 2 g/kg given intravenously every 1 to 2 months.

Other Uses with Supportive Evidence



8. Antibody-Mediated Rejection (ABMR) in Transplantation.

Criteria. Approve for 1 year.

Dosing. Approve the following dosing regimens (A <u>or</u> B):

- A) Up to 2 g/kg as an intravenous infusion (as a single dose or divided in smaller doses [e.g., 400 mg per kg daily for 5 days]); OR
- **B**) The dosage is based on a transplant center's protocol.
- 9. Autoimmune Mucocutaneous Blistering Diseases (Pemphigus Vulgaris, Pemphigus Foliaceus, Bullous Pemphigoid, Mucous Membrane Pemphigoid [Cicatricial Pemphigoid], and Epidermolysis Bullosa Acquisita).

Criteria. Approve for the duration noted if the patient meets ONE of the following (A <u>or</u> B):

- A) <u>Initial Therapy</u>: Approve for 6 months if the patient meets ONE of the following (i, ii, <u>or</u> iii):
 - i. The patient has tried a systemic corticosteroid OR a corticosteroid is contraindicated according to the prescriber AND the patient has tried an immunosuppressive agent OR an immunosuppressive agent is contraindicated according to the prescriber; OR <u>Note</u>: Examples of immunosuppressive agents include azathioprine, cyclophosphamide, dapsone, methotrexate, cyclosporine, mycophenolate mofetil, and tacrolimus.
 - **ii.** The patient has rapid, debilitating, progressive disease, that cannot be controlled with a systemic corticosteroid and an immunosuppressive agent; OR
 - **iii.** The disease is so serious that there is inadequate time for therapy with a systemic corticosteroid and an immunosuppressive agent to have a rapid enough effect.
- **B**) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 1 year if the patient has responded to therapy according to the prescriber.

<u>Note</u>: Examples of response to therapy can include healing of previous lesions or fewer new lesions.

Dosing. Approve the following dosing regimens (A, B, <u>or</u> C):

- A) 2 g/kg per cycle given intravenously every 3 to 4 weeks. This dose is divided over 2, 3, or 5 consecutive days; OR
- **B**) In patient with aggressive ocular disease, such as ocular cicatricial pemphigoid, 2 g/kg given intravenously may be given every 2 weeks in divided doses over 2, 3, or 5 consecutive days; OR
- C) The frequency is gradually being slowly decreased as the lesions resolve and heal.

10. Cytomegalovirus (CMV) Pneumonia in Patients with Cancer or Transplant-Related Infection.

Criteria. Approve for 2 months.

Dosing. Approve 400 mg/kg given intravenously every other day for 3 to 5 doses.

11. Desensitization Therapy Prior to and Immediately after Transplantation.



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Criteria. Approve for 1 year.

Dosing. Approve the following dosing regimens (A <u>or</u> B):

- A) Up to 2 g/kg per month administered intravenously (as a single dose or divided in smaller doses [e.g., 400 mg per kg daily for 5 days]); OR
- **B**) The dosage is based on a transplant center's protocol.

12. Guillain Barrè Syndrome.

Criteria. Approve for the duration noted if the patient meets ONE of the following (A or B):

- A) <u>Initial Therapy</u>: Approve for 1 month (this is to provide one course of therapy) if the patient meets ONE of the following (i or ii):
 - The medication is initiated within 2 weeks and no longer than 4 weeks after onset of neuropathic symptoms; OR
 Note: Examples of neuropathic symptoms include weekpass, including to stand or welk

<u>Note</u>: Examples of neuropathic symptoms include weakness, inability to stand or walk without assistance, and respiratory or bulbar weakness.

- ii. Patient has had a relapse (treatment related fluctuation), but had an initial response to IVIG.
- **B**) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 1 month (this is to provide a second course) about 3 weeks after the first course.

Dosing. Approve 2 g/kg administered intravenously in divided doses over 2 to 5 days.

13. Hematologic Neoplasm-Associated Hypogammaglobulinemia or Hypogammaglobulinemia after B-cell Targeted Therapies (Secondary Immunodeficiency [SID]).

<u>Note</u>: Some examples of B-cell targeted therapy are chimeric antigen receptor (CAR)-T cell therapy (e.g., Kymriah [tisagenlecleucel injection], Abecma [idecabtagene vicleucel injection], Breyanzi [lisocabtagene maraleucel injection], Tecartus [brexucabtagene autoleucel injection], Yescarta [axicabtagene ciloleucel injection]), a rituximab product, Besponsa (inotuzumab ozogamicin injection).

<u>Note</u>: Refer to B-Cell Chronic Lymphocytic Leukemia (CLL) for Prevention of Infections and Multiple Myeloma for diagnosis-specific criteria.

Criteria. Approve for the duration noted if the patient meets ONE of the following (A <u>or</u> B):

A) Initial Therapy: Approve for 6 months if the patient meets ALL of the following (i and ii):

- i. The patient has an immunoglobulin G (IgG) level of < 600 mg/dL (6.0 g/L) (excluding paraprotein); AND
- **ii.** The patient has recurrent or severe infections or there is a high risk of infection, according to the prescriber.
- **B**) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 6 months if the patient is having a positive response to therapy according to the prescriber.

<u>Note</u>: Examples of a positive response to therapy include maintaining an increased IgG trough level or a decrease in the number of infections.

Dosing. Approve the following dosing regimens (A, B, <u>or</u> C):

- A) 0.4 g/kg to 0.6 g/kg given intravenously once a month; OR
- **B**) 0.2 g/kg to 0.8 g/kg given intravenously once every 3 to 4 weeks; OR



C) The dose and interval between doses has been adjusted based on clinical response as determined by the prescriber.

14. Hematopoetic Stem Cell Transplantation (HSCT).⁸⁰

Criteria.⁷⁹ Approve for 4 months if the patient meets both of the following criteria (A and B):

- A) The patient is ≥ 20 years of age; AND
- **B**) The requested medication is being used to prevent the risk of acute graft vs host disease (GVHD), associated interstitial pneumonia (infectious or idiopathic), and infections (e.g., cytomegalovirus infections [CMV], varicella-zoster virus infection, and recurrent bacterial infection) after allogenic hematopoetic stem cell transplantation (HSCT) in the first 100 days after transplantation.

Dosing. <u>Dosing must meet the following</u>: 500 mg/kg on days 7 and 2 pre-transplantation or at the time conditioning therapy for transplantation is begun, then weekly through day 90 posttransplant.⁴ Other dosing regimens may be reviewed on a case-by-case basis.

15. Human Immunodeficiency Virus (HIV)- or Hepatitis C-Associated Thrombocytopenia.

Criteria. Approve for 1 month if the patient is receiving antiviral therapy.

Dosing. Approve the following dosing regimens (A <u>or</u> B):

- A) Up to 2 g/kg given intravenously in divided doses over 2 to 5 days; OR
- **B**) Up to 1 g/kg one time given intravenously up to once weekly.

16. Human Immunodeficiency Virus (HIV), to Prevent Recurrent Infections.

Criteria. Approve for the duration noted if the patient meets ONE of the following (A or B):

- A) Initial Therapy: Approve for 6 months if the patient meets the following (i, ii and iii):
 - i. The patient is < 18 years of age; AND
 - ii. Patient is receiving combination antiretroviral therapy; AND
 - **iii.** The patient has ONE of the following (a, b, <u>or</u> c):
 - **a.** Hypogammaglobulinemia (i.e., IgG < 400 mg/dL [4.0 g/L]); OR
 - **b.**Functional antibody deficiency is demonstrated by poor specific antibody titers (that is, the patient does not develop specific antibody responses against protein and polysaccharide antigens); OR
 - **c.** Functional antibody deficiency is demonstrated by the patient having recurrent (two or more per year), serious infections (e.g., bacteremia, meningitis, pneumonia) despite administration of combination antiretroviral therapy and appropriate antimicrobial prophylaxis.
- **B**) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 1 year if the frequency and/or severity of infections have decreased according to the prescriber.

Dosing. Approve the following dosing regimens (A <u>or</u> B):

- A) The dose is 0.4 g/kg given intravenously infusion every 2 to 4 weeks; OR
- **B**) The dose and interval are adjusted according to clinical effectiveness.



<u>Note</u>: Examples of adjusting according to clinical effectiveness may include the need to increase the dose or frequency based on frequency or severity of infections, hospitalizations, days of school or work missed, failure to thrive.

17. Immunotherapy-Related Toxicities Associated with Checkpoint Inhibitor Therapy.

<u>Note</u>: Examples of checkpoint inhibitors are Keytruda (pembrolizumab injection), Opdivo (nivolumab injection), Yervoy (ipilimumab injection), Tecentriq (atezolizumab injection), Bavencio (avelumab injection), Imfinze (durvalumab injection), Libtayo (cemiplimab injection), Jemperli (dostarlimab injection).

Criteria. Approve for the duration noted if the patient meets ONE of the following (A <u>or</u> B):

A) <u>Initial Therapy</u>: Approve for 1 month if the patient meets the following (i, ii or iii):

- i. The patient has tried a systemic corticosteroid and has not adequately responded to therapy; OR
 - Note: Examples of systemic corticosteroids include prednisone, methylprednisolone.
- ii. The medication is being started with a systemic corticosteroid; OR
- iii. A corticosteroid is contraindicated per the prescriber.
- **B**) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 6 months if the patient is having a positive response to therapy, as determined by the prescriber, and the prescriber has determined extended therapy is required.

Dosing. Approve the following dosing regimens (A, B, <u>or</u> C):

- A) Up to 0.4 g/kg given intravenously daily for 5 days; OR
- **B**) Up to 2 g/kg given intravenously over 2 to 5 days; OR
- **C)** The dose and interval between doses has been adjusted based on clinical response as determined by the prescriber.

18. Lambert-Eaton Myasthenic Syndrome (LEMS).

Criteria. Approve for the duration noted if the patient meets ONE of the following (A or B):

- A) <u>Initial Therapy</u>: Approve for 1 month (to allow for one course of therapy [divided doses given over 2 to 5 days]) if the patient meets ONE of the following (i <u>or</u> ii):
 - i. The patient has paraneoplastic LEMS and is having refractory weakness after symptomatic treatment of LEMS with an amifampridine product (e.g., Firdapse, Ruzurgi), guanidine, or pyridostigmine; OR
 - ii. The patient has <u>non</u>-paraneoplastic LEMS and meets one of the following (a <u>or</u> b):
 - **a.** The patient is having refractory weakness after symptomatic treatment of LEMS with an amifampridine product (e.g., Firdapse, Ruzurgi), guanidine, or pyridostigmine; OR
 - **b.**The patient has tried a systemic corticosteroid (e.g., prednisone) or another immunosuppressive agent (e.g., azathioprine), or has a contraindication to corticosteroids and/or immunosuppressive agents, according to the prescriber.
- B) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 1 year if the patient has a response or continued effectiveness, according to the prescriber.
 <u>Note</u>: Examples of a response to therapy include improved muscle strength or other clinical response.



Dosing. Approve the following dosing regimens (A <u>or</u> B):

- A) Up to 2 g/kg given intravenously in divided doses over 2 to 5 consecutive days; OR
- **B**) Maintenance therapy every 4 weeks with up to 2 g/kg with the dose being adjusted based on clinical symptoms.

19. Multiple Myeloma.

Criteria. Approve for the duration noted if the patient meets ONE of the following (A <u>or</u> B):

- A) <u>Initial Therapy</u>: Approve for 6 months if the patient has, or is at risk of, severe recurrent infections according to the prescriber.
- **B**) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 1 year.

Dosing. Approve 0.4 g/kg to 0.5 g/kg given intravenously every 3 to 4 weeks.

20. Multiple Sclerosis (MS), Acute Severe Exacerbation or Relapses.

Criteria. Approve for 1 month (this is to provide one course of therapy) if the patient meets both of the following (A <u>and</u> B):

- A) Patient meets ONE of the following (i <u>or</u> ii):
 - **i.** The patient has either not responded to OR has had a significant adverse reaction with systemic corticosteroids (e.g., methylprednisolone sodium succinate injection) OR plasma exchange; OR

<u>Note</u>: A trial of Acthar H.P. gel [repository corticotropin injection; adrenocorticotropic hormone, ACTH] would also count toward meeting this requirement.

- ii. A systemic corticosteroid is contraindicated, according to the prescriber; AND
- **B**) Patient meets ONE of the following (i <u>or</u> ii):
 - **i.** Patient is already on maintenance therapy for MS or will be starting maintenance therapy for MS; OR

<u>Note</u>: Maintenance therapy does NOT include IVIG. Examples of maintenance therapy for MS would include: Avonex (interferon beta-1a injection), Plegridy (peginterferon beta-1a injection), Rebif (interferon beta-1a injection), Betaseron (interferon beta-1b injection)/Extavia (interferon beta-1b injection), Copaxone (glatiramer injection)/Glatopa (glatiramer injection), Gilenya (fingolimod capsule), Lemtrada (alemtuzumab injection), Aubagio (teriflunomide tablet), Mavenclad (cladribine tablet), Mayzent (siponimod tablet), Tecfidera (dimethyl fumarate capsule), Vumerity (diroximel fumarate capsule), Zeposia (ozanimod capsule), Tysabri (natalizumab injection), Novantrone (mitoxantrone injection), Bafiertam (monomethyl fumarate capsule), Kesimpta (ofatumumab injection), Ocrevus (ocrelizumab injection), Ponvory (penesimod tablet).

ii. Patient is pregnant or patient is post-partum and the prescriber has determined maintenance therapy is not clinically appropriate

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Dosing. Approve the following dosing regimens (A <u>or</u> B):

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- A) A single 1 g/kg given intravenously; OR
- **B**) 0.4 g/kg per day IV infusion for 5 consecutive days.

21. Myasthenia Gravis.

Criteria. Approve for the duration noted if the patient meets ONE of the following (A, B, C <u>or</u> D):

- A) <u>Initial Therapy for Short-Term (Acute) Use</u>: Approve for 5 days (to allow for one course of therapy) if the patient meets one of the following (i, ii, iii, or iv):
 - i. The patient has an exacerbation of myasthenia gravis; OR
 - ii. The patient requires stabilization of myasthenia gravis before surgery; OR
 - iii. The patient has been started on an immunosuppressive drug and is waiting for full effect; OR

<u>Note</u>: Examples of immunosuppressive drugs include azathioprine, cyclosporine, cyclophosphamide, mycophenolate mofetil, methotrexate, or tacrolimus.

- **iv.** The patient is starting therapy with a corticosteroid and IVIG is being given to prevent or minimize exacerbations.
- **B)** <u>Patient is Currently Receiving Immune Globulin Short-Term (Acute) Use</u>. Approve for 5 days (to allow for one course of therapy).
- C) <u>Initial Therapy for Maintenance</u>: Approve for 1 year if the patient meets ONE of the following criteria (i, ii, and iii):
 - i. Patient has refractory myasthenia gravis; AND
 - ii. The patient has tried pyridostigmine; AND
 - **iii.** The patient has tried immunosuppressive therapy with at least one of the following agents: azathioprine, cyclosporine, cyclophosphamide, mycophenolate mofetil, methotrexate, tacrolimus AND has had an inadequate response.
- **D**) <u>Patients Currently Receiving Immune Globulin for Maintenance Therapy</u>: Approve for 1 year if the patient is responding according to the prescriber.

Note: Examples of responding to therapy include improvement in weakness (bulbar, limb, or respiratory), improvement with ocular symptoms.

Dosing. Approve the following dosing regimens (A, B, <u>or</u> C):

- A) Short-term use: 2 g/kg given intravenously in divided doses over 2 to 5 consecutive days; OR
- **B**) Maintenance therapy: up to 0.4 to 1 g/kg given intravenously every 4 weeks; OR
- C) The dose and interval between doses has been adjusted based on clinical response as determined by the prescriber.

22. Passive Immunization for Measles (Post-Exposure Prophylaxis).

Criteria. Approve for 1 day (to allow for a single dose) if the patient meets ONE of the following (A <u>or</u> B):

- A) Patient is pregnant and meets BOTH of the following (i and ii):
 - i. Patient has been exposed to measles; AND
 - **ii.** Patient does not have evidence of immunity to measles (i.e., the patient does not have a history of the disease or age-appropriate vaccination); OR

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- **B**) Patient meets BOTH of the following (i <u>and</u> ii):
 - i. Patient is immunocompromised; AND
 - **ii.** Patient has been exposed to measles.

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12/7/2022 © 2022. All Rights Reserved. **Dosing.** Approve the following dosing regimen: 0.4 g/kg intravenously administered one time.

23. Post-Exposure Prophylaxis for Varicella OR Treatment or Post-Exposure Prophylaxis for Tetanus.

Criteria. Approve for 1 day (to allow for a single dose) if the patient meets ONE of the following (A <u>or</u> B):

- A) For Varicella post-exposure, Varicella immune globulin is not available or cannot be administered within 10 days of exposure; OR
- **B**) For Tetanus treatment or post-exposure, Tetanus Immune globulin is not available.

Dosing. Approve the following dosing regimens (A <u>or</u> B):

- A) 0.4 g/kg given intravenously one time; OR
- **B**) 0.2 to 0.4 g/kg given intravenously one time

24. Pure Red Blood Cell Aplasia (PRCA) Secondary to Parvovirus B19 Infection.

Criteria. Approve for the duration noted if the patient meets ONE of the following (A <u>or</u> B):

- A) <u>Initial Therapy</u>: Approve for 2 months if the patient has an immunodeficiency condition. <u>Note</u>: Examples of an immunodeficiency condition include patients with HIV infection, solid organ transplants (e.g., renal, liver), chemotherapy for hematologic malignancy, bone marrow suppression.
- **B**) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 6 months.

Dosing. Approve the following dosing regimens (A, B, <u>or</u> C):

- A) 2 g/kg given intravenously over a period of 2 to 5 consecutive days; OR
- B) 0.4 g/kg to 0.5 g/kg given intravenously daily for 5 days; OR
- C) 0.4 g/kg given intravenously once every 4 weeks.

25. Pure Red Blood Cell Aplasia (PRCA), Immunologic Subtype.

Criteria. Approve for the duration noted if the patient meets ONE of the following (A or B):

- A) Initial Therapy: Approve for 1 month if the patient meets ALL of the following (i and ii):
 - i. Patient has tried a systemic corticosteroid (e.g., prednisone); AND
 - ii. Patient has tried either cyclophosphamide OR cyclosporine.

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B) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 1 month if the patient has responded with an increase in hemoglobin and reticulocytosis, according to the prescriber.

Dosing. Approve 0.5 g/kg given intravenously for 4 weeks.

26. Stiff-Person Syndrome (Moersch-Woltman Syndrome).

Criteria. Approve for the duration noted if the patient meets ONE of the following (A <u>or</u> B):

A) <u>Initial Therapy</u>: Approve for 3 months if the patient meets one of the following (i or ii):

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i. The patient has tried a benzodiazepine (e.g., diazepam) OR baclofen; OR

- **ii.** The patient has contraindications to both a benzodiazepine AND baclofen according to the prescriber.
- **B**) <u>Patient is Currently Receiving Immune Globulin</u>. Approve for 1 year if the patient has responded to therapy according to the prescriber.

<u>Note</u>: Examples of response to therapy includes reduced stiffness or frequency of spasms, ability to walk unassisted.

Dosing. Approve the following dosing regimens (A <u>or</u> B):

- A) 2 g/kg given intravenously over a period of 2 to 5 consecutive days every month; OR
- **B**) For maintenance therapy, the dose is adjusted to provide the minimum effective dosage of IVIG. Maximum dose is 2 g/kg given intravenously.

27. Thrombocytopenia, Feto-neonatal Alloimmune.

Criteria. Approve for 6 months.

Dosing. Approve the following dosing regimens (A, B, C, <u>or</u> D):

- A) For the mother: 1 g/kg given intravenously every week; OR
- **B**) For the mother: 2 g/kg given intravenously every week; OR
- C) For the mother: 1 g/kg given intravenously twice weekly; OR
- **D**) For the newborn: 1 g/kg to 2 g/kg given intravenously dosed per the prescriber.

28. Autoimmune Retinopathy.⁸⁰

Criteria. Approve for 3 months if the patient meets both of the following (A and B):

- A) The patient's condition is sight-threatening; AND
- **B**) The patient's condition is refractory to corticosteroid and immunosuppressant therapy.

Dosing.⁸⁰ Approve one of the following (A or B):

- A) Induction Dose: 1.5 g/kg in divided doses over 3 days; OR
- **B**) <u>Maintenance Dose</u>: 0.4 to 1.5 g/kg in single or divided doses monthly.

29. Bone Marrow Transplant/Stem Cell Transplant.⁷⁹

Criteria.⁷⁹ Approve for 4 months if the patient meets one of the following criteria (A or B):

- A) The patient was cytomegalovirus (CMV)-positive before transplantation; OR
- **B**) The patient and donor were both cytomegalovirus (CMV)-negative and underwent allogenic transplantation for hematologic neoplasms.

Dosing. <u>Dosing must meet the following</u>: 500 mg/kg on days 7 and 2 pretransplant or at the time conditioning therapy for transplantation is begun, then weekly through day 90 posttransplant.⁴ Other dosing regimens may be reviewed on a case-by-case basis.

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30. Chronic Graft versus Host Disease (GVHD).⁸⁰

Criteria.⁸⁰ Approve for 6 months if the patient meets ALL of the following (A, B, C and D):

- A) The patient has a confirmed diagnosis of chronic graft versus host disease (GVHD); AND
- **B**) The patient has laboratory-proven hypogammaglobulinemia with an immunoglobulin G (IgG) level < 400 mg/dL (4.0 g/L); AND
- C) The patient has had at least one acute infection requiring hospitalization and/or parenteral antibiotics; AND
- **D**) The patient is at least 100 days post-transplant.

Dosing. Approve the following dose: 0.5 g per kg IV infusion every 3 to 4 weeks, and the dose is adjusted to keep IgG greater than 400 mg/dL.

31. Systemic Lupus Erythematosus.⁸⁰

Criteria.⁸⁰ Approve for 1 year if the patient has severe active systemic lupus erythematosus AND other interventions have been unsuccessful or intolerable, or are contraindicated.

Dosing.⁸² Approve doses up to 0.4 g/kg/day for 5 days every 4 weeks. Since data is limited, other dosing regimens can be reviewed on a case-by-case basis.

32. Scleromyxedema.⁸⁰

Criteria.⁸⁰ Approve for 1 year.

Dosing.⁸⁰ Approve one of the following (A or B):

A) 2 g/kg IV every 6 weeks (given in divided doses over 2 to 4 consecutive days); OR

B) 1.5 g/kg IV every 4 weeks (given in divided doses over 2 to 4 consecutive days).

33. Systemic Capillary Leak Syndrome (Clarkson's Disease).⁸⁰

Criteria.⁸⁰ Approve for 1 year if the patient meets both of the following criteria (A and B):

- A) IVIG is being used for prophylaxis; AND
- **B**) The patient's condition is associated with monoclonal gammopathy.

Dosing.⁸⁰ Approve doses up to 2 g/kg administered monthly. Since data is limited, other dosing regimens can be reviewed on a case-by-case basis.

34. Immune-Mediated Necrotizing Myositis (IMNM).⁸⁰

Criteria.⁸⁰ Approve for 1 year.

Dosing.⁸³ Approve doses up to 2 g/kg administered monthly. Since data is limited, other dosing regimens can be reviewed on a case-by-case basis.



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CONDITIONS NOT RECOMMENDED FOR APPROVAL

Coverage of immune globulin intravenous is not recommended in the following situations:

 Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria. IVIG has been used in many conditions when multiple other therapies have failed or are not tolerated and for rare conditions. Many case reports and pilot studies have reported its use for various indications and data are preliminary. Well-designed studies are needed to assess safety and efficacy. For conditions that are rare more information is needed to assess IVIG's place in therapy. Criteria will be updated as new published data are available.

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Type of Revision	Summary of Changes	Date
Policy created	New Medicare Advantage Medical Policy	07/11/2018
Select revision	Reviewed and revised original policy created 07/11/2018 in accordance with Local Coverage Article A52446.	08/28/2019
Select revision	Completion of 2019 monthly monitoring process in accordance with Local Coverage Determination L33394, Local Coverage Article A52446.	12/11/2019
Select revision	Reviewed and revised original policy created 07/11/2018 in accordance with Local Coverage Article A52509. Added "IVIG is/will be administered in the home AND the treating physician has determined that administration of IVIG in the patient's home is medically appropriate ⁴⁻⁵ (skilled nursing facility is NOT considered the patient's home)" to PID per A52509.	1/29/2020
Select revision	Non-clinical update to policy to add the statement "This policy incorporates Medicare coverage guidance as set forth in National Coverage Determinations (NCDs) and Local Coverage Determinations (LCDs), as well as in companion policy articles and other guidance applicable to the relevant service areas. These documents are cited in the References section of this policy. In some cases, this guidance includes specific lists of HCPCS and ICD-10 codes to help inform the coverage determination process. The Articles that include specific lists for billing and coding purposes will be included in the Reference section of this policy. However, to the extent that this policy cites such lists of HCPCS and ICD-10 codes, they should be used for reference purposes only. The presence of a specific HCPCS or ICD-10 code in a chart or companion article to an LCD is not by itself sufficient to approve coverage. Similarly, the absence of such a code does <u>not</u> necessarily mean that the applicable condition or diagnosis is excluded from coverage."	1/30/2020
Select revision	Removed "IVIG is/will be administered in the home AND the treating physician has determined that administration of IVIG in the patient's home is medically appropriate ⁴⁻⁵ (skilled nursing facility is NOT considered the patient's home)" from PID indication, this was based solely on DME requirements and has been determined to be not applicable to this clinical policy.	03/24/2020
Policy Revision	Primary Immunodeficiencies (PID) : In Initial Therapy, the wording of "or another confirmed primary immunodeficiency" was added. For Continuation Therapy, the examples of benefits from the product were moved to a Note and the wording "according to the prescriber" was added. In Dosing , the examples of clinical response were removed. In Dosing related to patients with primary immunodeficiency and exposure to measles, the wording of "previous exposure or risk of future measles exposure" was added. The specific measles dosing	9/15/2020

HISTORY





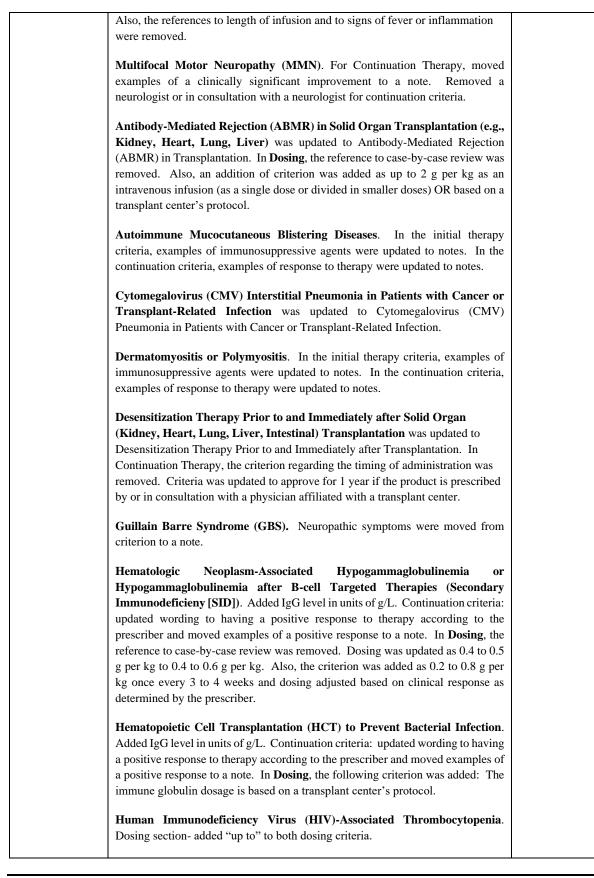
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regimens were removed and the wording that the minimum dose has been determined by the prescriber was added. B-Cell Chronic Lymphocytic Leukemia for Prevention of Bacterial Infections: Added "having a positive response to therapy according to the prescriber" and placed current examples of a positive response as a note. Chronic Inflammatory Demyelinating Polyneuropathy (CIDP) or Polyradiculoneuropathy: For Continuation Therapy, moved examples of a clinically significant improvement to a note. Removed a neurologist or in consultation with a neurologist for continuation criteria. Idiopathic (Immune) Thrombocytopenic Purpura (ITP) or Immune Thrombocytopenia [IT] Acute and Chronic was updated to Immune Thrombocytopenia (ITP). The following note was added: The diagnosis of Immune Thrombocytopenia (ITP) encompasses previous nomenclature, such as Idiopathic Thrombocytopenia, Idiopathic Thrombocytopenic Purpura, Immune Thrombocytopenic Purpura. In Initial Therapy for adults ≥ 18 years of age (previously > 17 years of age), criteria were updated to require the patient try a systemic corticosteroid, or there is an urgent need to increase platelet count quickly, or to allow if a systemic corticosteroid is contraindicated according to the prescriber. Previous criteria that separated out adults and children with acute bleeding and those with persistent or chronic disease were removed. Previous criteria of specifying platelet counts for adults with acute bleeding, persistent or chronic disease, and to increase platelet counts prior to surgery were removed. The requirement for adults that a corticosteroid be started with immune globulin if there is an urgent need to increase the platelet count quickly was removed. In Initial Therapy for children and adolescents (< 18 years of age) [previously ≤ 17 years of age], to increase platelet counts before surgical procedures, and pregnant patients, the criteria were updated to only include a requirement for the prescriber's specialty. Previous criteria that addressed children and adolescents with inaccessibility issues, activity level, and noncompliance were removed. The specific wording regarding pregnant patients, including "before normal vaginal delivery, cesarean section, or spinal or epidural anesthesia" and "pregnant patient in any trimester" was removed and replaced with the general term of "pregnant patients". The duration of approval was updated from 2 weeks and 3 months, per the respective classifications, to 6 months for any pregnant patient. For Continuation Therapy, a requirement was added that the patient has responded to therapy according to the prescriber; and the examples of responding to therapy were moved to a Note. In **Dosing**, specific dosing regimens were removed. The wording of "up to" 1 g per kg on 2 consecutive days, "up to" 0.4 g per kg on 5 consecutive days (up to a total of 2 g per kg per treatment course), and the dose and interval between doses has been adjusted according to the platelet count and/or to prevent significant bleeding "as determined by the prescriber" was added. Kawasaki Disease: The criteria were updated from approval of a single dose to an approval duration of 3 months. The criterion that the patient had signs and

an approval duration of 3 months. The criterion that the patient had signs and symptoms required for a second dose of immune globulin was removed since the intent of the criteria assumed the patient was given a first dose of the product in the hospital. In **Dosing**, the wording of "up to" and "as a single dose or over multiple consecutive days" and "the dose may be repeated if needed" was added.







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	Human Immunodeficiency Virus (IIIV) Infected Infects and Children to	
	Human Immunodeficiency Virus (HIV)-Infected Infants and Children to	
	Prevent Recurrent Bacterial Infections. Added IgG level in units of g/L.	
	Dosing criteria- removed "between infusions" and added a note of examples of	
	adjusting the dose according to clinical effectiveness.	
	Immunotherapy-Related Toxicities Associated with Checkpoint Inhibitor	
	Therapy . Initial therapy criteria- moved examples of systemic corticosteroid	
	therapy to a note. Dosing criteria: Added "up to" and "as an IV infusion"	
	wording. Added criterion regarding the dose and interval between doses has been	
	adjusted based on clinical response as determined by the prescriber.	
	adjusted based on ennical response as determined by the presenter.	
	Lambert-Eaton Myasthenic Syndrome (LEMS). Continuation criteria-	
	moved examples of a response to therapy to a note. In Dosing , the wording "up	
	to" was added.	
	Dosing criteria- added the wording "up to" on criteria A).	
	Myasthenia Gravis. Moved examples of immunosuppressive drugs to notes.	
	Dosing criteria- added criterion regarding the dose and interval between doses has	
	been adjusted based on clinical response as determined by the prescriber. Also	
	added the wording "up to".	
	Passive Immunization for Measles (Post-Exposure Prophylaxis). Moved	
	examples of severe immunocompromised status into a note.	
	Pure Red Blood Cell Aplasia (PRCA) Secondary to Chronic [Persistent]	
	Parvovirus B19. Moved examples of chronic immunodeficiency conditions to a	
	note.	
	Stiff-Person Syndrome (Moersch-Woltman Syndrome). Continuation therapy	
	- moved examples of response to therapy to a note.	
	Thrombocytopenia, Feto-neonatal Alloimmune. In Dosing, the reference	
	to case-by-case review was removed. The option for neonatal being dosed by	
	the prescriber was added.	
	For continuation criteria, removed the wording "intravenous."	
Policy revision	Removed Carimune from the policy (obsolete).	10/04/2021
	B-Cell Chronic Lymphocytic Leukemia for Prevention of Infections: The	
	descriptor of "bacterial" was removed from the condition of approval.	
	Additionally, the descriptor of "bacterial" was removed from the criterion	
	regarding recurrent infections. The Dosing was updated to be: "greater than	
	500 mg/dL" (previously was "about 500 mg/dL and up to 700 mg/dL").	
	Dermatomyositis or Polymyositis: This indication was moved from "Other	
	Uses with Supportive Evidence" to an FDA-approved indication. Prior to	
	starting therapy, a requirement for an elevated kinase level, according to the	
	prescriber, was added, unless other measures support the diagnosis, including,	
	but not limited to, skin manifestations, autoantibody testing, muscle biopsy	
	results, electromyographic findings. Dosing that referred to monthly use was	
	updated to be once every 4 weeks.	
	Multifocal Motor Neuropathy: The indication "Multifocal Motor Neuropathy	
	(Treatment)" was changed as listed. A requirement was added that the diagnosis	



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	removed. The word "severely" was removed from the criterion related to	
	immunocompromised patients. A note regarding examples of severely	
	immunocompromised patients was removed. In Dosing, the wording "as soon as possible after exposure" was removed.	
	as possible after exposure was removed.	
	Passive Immunization for Varicella (Chickenpox) [Post-Exposure	
	Prophylaxis]: The requirement that VariZIG is not available was updated to	
	add "or it cannot be administered within 10 days of exposure".	
	add of it cannot be administered within 10 days of exposure .	
Policy revision	Human Immunodeficiency Virus (HIV) - or Hepatitis C-Associated	12/7/2022
	Thrombocytopenia. The diagnosis Hepatitis C-Associated Thrombocytopenia	
	was added to the policy. Criterion was added requiring that patient is receiving	
	antiviral therapy.	
	Human Immunodeficiency Virus (HIV), to Prevent Recurrent Infections.	
	Added the following criterion: Patient is receiving combination antiretroviral	
	therapy. Removed the following criterion: The patient has a CD4+ lymphocyte	
	count of 200/mm ³ or greater.	
	Recurrent-Relapsing Inflammatory Optic Neuropathy. Removed this	
	indication, no longer indicated in the LCD.	
	Multiple Myeloma. Added the wording, "or is at risk of" to the criterion related	
	to severe recurrent infections according to the prescriber.	
	Post-Exposure Prophylaxis for Varicella OR Treatment or Post-Exposure	
	Prophylaxis for Tetanus: The diagnosis wording was previously Passive	
	Immunization for Varicella (Chickenpox) [Post-Exposure Prophylaxis].	
	Following criteria was added: Varicella immune globulin is not available or	
	cannot be administered within 10 days of exposure. Treatment or Post-Exposure	
	Prophylaxis for Tetanus was added to the diagnosis with the following criterion:	
	Tetanus Immune globulin is not available. Dosage of 0.2 to 0.4 g/kg intravenously	
	one time was added.	
	Dure Ded Plead Cell Aplacia (DDCA) Secondary to Demoving P10	
	Pure Red Blood Cell Aplasia (PRCA) Secondary to Parvovirus B19	
	Infection: Diagnosis wording was previously Pure Red Blood Cell Aplasia	
	(PRCA) Secondary to Chronic (Persistent) Parvovirus B19 Infection. Removed	
	criteria requiring patient have severe refractory anemia due to bone marrow	
	suppression, replaced with "patient has an immunodeficiency condition"	
	Continuation of therapy criteria related to hemoglobin and relapse were removed	
	from the criteria. Removed "(one course) for up to two courses" from the dosage	
	2g/kg given intravenously over a period of 2 to 5 consecutive days.	
	Guillain Barrè Syndrome. For initial therapy, criteria was added requiring either	
	The medication is initiated within 2 weeks and no longer than 4 weeks after onset	
	of neuropathic symptoms; OR Patient has had a relapse (treatment related	
	fluctuation), but had an initial response to IVIG.	
	nactuation, out nue un mitur response to 1910.	
	Hematologic Neoplasm-Associated Hypogammaglobulinemia or	
	Hypogammaglobulinemia after B-cell Targeted Therapies (Secondary	
	Immunodeficiency [SID]). Patient's immunoglobulin G (IgG) level was updated	
	to $< 600 \text{ mg/dL}$ (6.0 g/L); previously was 500 mg/dL (5.0 g/L).	
	Hematopoetic Stem Cell Transplantation (HSCT). New indication with	
	criteria requiring that patient is ≥ 20 years of age and that the requested	



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	medication is being used to prevent the risk of acute graft vs host disease (GVHD), associated interstitial pneumonia (infectious or idiopathic), and infections (e.g., cytomegalovirus infections [CMV], varicella-zoster virus infection, and recurrent bacterial infection) after allogenic hematopoetic stem cell transplantation (HSCT) in the first 100 days after transplantation.	
	Human Immunodeficiency Virus (HIV), to Prevent Recurrent Infections. Added criterion requiring Patient is receiving combination antiretroviral therapy. Removed criterion requiring patient has CD4+ lymphocyte count of 200 mm/3 or greater.	
	Multiple Sclerosis (MS), Acute Severe Exacerbation or Relapses. Added the following criteria requiring the patient is already on maintenance therapy for MS or will be starting maintenance therapy for MS; OR Patient is pregnant or patient is post-partum and the prescriber has determined maintenance therapy is not clinically appropriate.	
	Myasthenia Gravis. For Initial Therapy for Maintenance, added criteria requiring the patient have refractory myasthenia gravis and have tried pyridostigmine and have tried immunosuppressive therapy with at least one of the following agents: azathioprine, cyclosporine, cyclophosphamide, mycophenolate mofetil, methotrexate, tacrolimus AND has had an inadequate response.	
	Passive Immunization for Measles (Post-Exposure Prophylaxis). Added criteria requiring that patient is EITHER pregnant and has been exposed to measles and does not have evidence of immunity to measles (i.e., the patient does not have a history of the disease or age-appropriate vaccination), OR Patient is immunocompromised and has been exposed to measles.	
	Pure Red Blood Cell Aplasia (PRCA), Immunologic Subtype. Previously, criteria required Patient has tried a systemic corticosteroid (e.g., prednisone) or has tried either cyclophosphamide OR cyclosporine. Criteria was updated to require a trial of both a systemic corticosteroid AND either cyclophosphamide or cyclosporine.	
	Autoimmune Retinopathy. Added criteria requiring the patient's condition is sight-threatening and refractory to corticosteroid and immunosuppressant therapy.	
	Added the following indications as conditions recommended for coverage: Chronic Graft versus Host Disease (GVHD), Systemic Lupus Erythematosus, Scleromyxedema, Systemic Capillary Leak Syndrome (Clarkson's Disease), Immune-Mediated Necrotizing Myositis (IMNM).	
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