



## SCIG: Hizentra®, Gammagard Liquid®, Gamunex®-C, Gammaked®, HyQvia®, Cuvitru®, Xembify® (immune globulin SQ)

Last Review Date: January 18, 2022

Number: MG.MM.PH.107

### Medical Guideline Disclaimer

Property of EmblemHealth. All rights reserved. The treating physician or primary care provider must submit to EmblemHealth the clinical evidence that the patient meets the criteria for the treatment or surgical procedure. Without this documentation and information, EmblemHealth will not be able to properly review the request for prior authorization. The clinical review criteria expressed below reflects how EmblemHealth determines whether certain services or supplies are medically necessary. EmblemHealth established the clinical review criteria based upon a review of currently available clinical information (including clinical outcome studies in the peer-reviewed published medical literature, regulatory status of the technology, evidence-based guidelines of public health and health research agencies, evidence-based guidelines and positions of leading national health professional organizations, views of physicians practicing in relevant clinical areas, and other relevant factors). EmblemHealth expressly reserves the right to revise these conclusions as clinical information changes and welcomes further relevant information. Each benefit program defines which services are covered. The conclusion that a particular service or supply is medically necessary does not constitute a representation or warranty that this service or supply is covered and/or paid for by EmblemHealth, as some programs exclude coverage for services or supplies that EmblemHealth considers medically necessary. If there is a discrepancy between this guideline and a member's benefits program, the benefits program will govern. In addition, coverage may be mandated by applicable legal requirements of a state, the Federal Government or the Centers for Medicare & Medicaid Services (CMS) for Medicare and Medicaid members. All coding and web site links are accurate at time of publication. EmblemHealth Services Company LLC, ("EmblemHealth") has adopted the herein policy in providing management, administrative and other services to HIP Health Plan of New York, HIP Insurance Company of New York, Group Health Incorporated, GHI HMO Select, ConnectiCare, Inc., ConnectiCare Insurance Company, Inc. ConnectiCare Benefits, Inc., and ConnectiCare of Massachusetts, Inc. related to health benefit plans offered by these entities. All of the aforementioned entities are affiliated companies under common control of EmblemHealth Inc.

### Authorization

- Initial coverage will be provided for 6 months and may be renewed annually thereafter.

### Dosing Limits

#### A. Max Units (per dose and over time) [Medical Benefit]:

Drug Name	Billable units/28 days
Hizentra	960 (PID) 1840 (CIDP)
Gamunex-C & Gammaked	192
Gammagard liquid	192
HyQvia	690
Cuvitru	920
Xembify	N/A (96gm)

**\*Xembify** -Prior to switching to Xembify, obtain patient's serum IgG trough level to guide subsequent dose adjustment. Switching from immune globulin intravenous (human), 10% (IVIG) to XEMBIFY: calculate the dose by using a dose adjustment factor. Xembify is to be given one week after the last IVIG infusion.

## Guideline

### Initial Approval Criteria

- Baseline values for BUN and serum creatinine obtained within 30 days of request; **AND**
- Coverage is provided in the following conditions:

#### Primary immunodeficiencies (PI) †

Such as: x-linked agammaglobulinemia, Wiskott -Aldrich syndrome, common variable immunodeficiency, transient hypogammaglobulinemia of infancy, IgG subclass deficiency with or without IgA deficiency, antibody deficiency with near normal immunoglobulin levels) and combined deficiencies (severe combined immunodeficiencies, ataxia-telangiectasia, x-linked lymphoproliferative syndrome) [**list not all inclusive**]

- For HyQvia ONLY: Patient must be ≥ 18 years old;
- For Gammagard Liquid, Gamunex-C, Gammaked, Hizentra, Cuvitru, Xembify: Patient must be ≥ 2 years old;

#### **AND**

- Patient's IgG level is <200 mg/dL **OR both** of the following
  - Patient has a history of multiple hard to treat infections as indicated by at least **one** of the following:
    - Four or more ear infections within 1 year
    - Two or more serious sinus infections within 1 year
    - Two or more months of antibiotics with little effect
    - Two or more pneumonias within 1 year
    - Recurrent or deep skin abscesses
    - Need for intravenous antibiotics to clear infections
    - Two or more deep-seated infections including septicemia; **AND**
  - The patient has a deficiency in producing antibodies in response to vaccination; **AND**
    - Titers were drawn before challenging with vaccination; **AND**
    - Titers were drawn between 4 and 8 weeks of vaccination

#### Chronic Inflammatory Demyelinating Polyneuropathy (CIDP) [Hizentra ONLY] †

- Patient must be ≥ 18 years old; **AND**
- Physician has assessed baseline disease severity utilizing an objective measure/tool; **AND**
  - Used as initial maintenance therapy for prevention of disease relapses after treatment and stabilization with intravenous immunoglobulin (IVIG)§; **OR**

- Used for re-initiation of maintenance therapy after experiencing a relapse and requiring re-induction therapy with IVIG (see Hizentra Renewal Criteria)

## PANDAS/PANS

**As per Massachusetts DOI Bulletin 2021-06, coverage for the following indication will be covered for Massachusetts residents under the Commercial line of business, starting 1/1/2022:**

- Treatment of pediatric autoimmune neuropsychiatric disorders associated with streptococcal infections (PANDAS) and pediatric acute-onset neuropsychiatric syndrome (PANS)

### § Initial IVIG criteria used for determination of coverage: *(Reference Use Only)*

- Patient's disease course is progressive or relapsing and remitting for 2 months or longer; AND
- Patient has abnormal or absent deep tendon reflexes in upper or lower limbs; AND
- Electrodiagnostic testing indicating demyelination:
  - Partial motor conduction block in at least two motor nerves or in 1 nerve plus one other demyelination criterion listed here in at least 1 other nerve; OR
  - Distal CMAP duration increase in at least 1 nerve plus one other demyelination criterion listed here in at least 1 other nerve; OR
  - Abnormal temporal dispersion conduction must be present in at least 2 motor nerves; OR
  - Reduced conduction velocity in at least 2 motor nerves; OR
  - Prolonged distal motor latency in at least 2 motor nerves; OR
  - Absent F wave in at least two motor nerves plus one other demyelination criterion listed here in at least 1 other nerve; OR
  - Prolonged F wave latency in at least 2 motor nerves; AND
- Cerebrospinal fluid analysis indicates the following:
  - CSF white cell count of  $<10$  cells/mm<sup>3</sup>; AND
  - CSF protein is elevated; AND
- Patient is refractory or intolerant to corticosteroids (e.g., prednisolone, prednisone, etc.) given in therapeutic doses over at least three months; AND
- Baseline in strength/weakness has been documented using an objective clinical measuring tool (e.g., INCAT, Medical Research Council (MRC) muscle strength, 6-MWT, Rankin, Modified Rankin, etc.)

† FDA Approved Indication(s)

## Renewal Criteria

Coverage can be renewed for 1 year based upon the following criteria:

- Absence of unacceptable toxicity from the drug; **AND**
- BUN and serum creatinine obtained within the last 6 months and the concentration and rate of infusion have been adjusted accordingly; **AND**

### Primary immunodeficiencies (PI)

- Disease response as evidenced by one or more of the following:
  - Decrease in the frequency of infection
  - Decrease in the severity of infection

### Chronic Inflammatory Demyelinating Polyneuropathy (CIDP)

- Renewals will be authorized for patients who have demonstrated a beneficial clinical response to maintenance therapy with subcutaneous immune globulin therapy.

**OR**

#### **Renewals for re-initiation of Hizentra (for the treatment of CIDP) only:**

- Patient is re-initiating maintenance therapy; **AND**
- Patient has improved and stabilized on IVIG treatment before re-initiating Hizentra.

### Limitations/Exclusions

SCIG: Hizentra, Gammagard Liquid, Gamunex-C, Gammaked, HyQvia, Cuvitru, Xembify is considered investigational when used for any indication not listed above.

### Applicable Procedure Codes

J1559	Injection, immune globulin (Hizentra), 100 mg
J1561	Injection, immune globulin, (Gamunex-C/Gammaked), non-lyophilized (e.g. liquid), 500 mg
J1569	Injection, immune globulin, (Gammagard liquid), non-lyophilized, (e.g. liquid), 500 mg
J1575	Injection, immune globulin/hyaluronidase, (HyQvia), 100 mg immune globulin
J1555	Injection, immune globulin (Cuvitru), 100 mg
J1558	Injection, immune globulin, 100 mg (Xembify). J-Code effective date: 07/01/2020
J3590	Unclassified biologics
90284	Immune globulin (SCIG), human, for use in subcutaneous infusions

### Applicable NDCs

Drug Name	NDC	IgG (grams)	Volume (mL)
Hizentra 20%	44206-0451-01	1	5
	44206-0452-02	2	10
	44206-0454-04	4	20
	44206-0455-10	10	50
Gammaked 10%	76125-0900-01	1	10
	76125-0900-25	2.5	25
	76125-0900-50	5	50
	76125-0900-10	10	100
	76125-0900-20	20	200

Gamunex-C 10%	13533-0800-12	1	10
	13533-0800-15	2.5	25
	13533-0800-20	5	50
	13533-0800-71	10	100
	13533-0800-24	20	200
	13533-0800-40	40	400
Gammagard Liquid 10%	00944-2700-02	1	10
	00944-2700-03	2.5	25
	00944-2700-04	5	50
	00944-2700-05	10	100
	00944-2700-06	20	200
	00944-2700-07	30	300
HyQvia 10% (with Recombinant Human Hyaluronidase 160 U/mL)	00944-2510-02	2.5	25
	00944-2511-02	5	50
	00944-2512-02	10	100
	00944-2513-02	20	200
	00944-2514-02	30	300
Cuvitru 20%	00944-2850-01	1	5
	00944-2850-03	2	10
	00944-2850-05	4	20
	00944-2850-07	8	40
Xembify	13533-0810-05	1	5
	13533-0810-06	1	5
	13533-0810-10	2	10
	13533-0810-11	2	10
	13533-0810-20	4	20
	13533-0810-21	4	20
	13533-0810-50	10	50
13533-0810-51	10	50	

### Applicable Diagnosis Codes

B20	Human immunodeficiency virus [HIV] disease
D80.0	Hereditary hypogammaglobulinemia
D80.1	Nonfamilial hypogammaglobulinemia
D80.2	Selective deficiency of immunoglobulin A [IgA]
D80.3	Selective deficiency of immunoglobulin G [IgG] subclasses
D80.4	Selective deficiency of immunoglobulin M [IgM]
D80.5	Immunodeficiency with increased immunoglobulin M [IgM]

D80.7	Transient hypogammaglobulinemia of infancy
D81.0	Severe combined immunodeficiency [SCID] with reticular dysgenesis
D81.1	Severe combined immunodeficiency [SCID] with low T- and B-cell numbers
D81.2	Severe combined immunodeficiency [SCID] with low or normal B-cell numbers
D81.6	Major histocompatibility complex class I deficiency
D81.7	Major histocompatibility complex class II deficiency
D81.89	Other combined immunodeficiencies
D81.9	Combined immunodeficiency, unspecified
D82.0	Wiskott-Aldrich syndrome
D83.0	Common variable immunodeficiency with predominant abnormalities of B-cell numbers and function
D83.2	Common variable immunodeficiency with autoantibodies to B- or T-cells
D83.8	Other common variable immunodeficiencies
D83.9	Common variable immunodeficiency, unspecified
G61.81	Chronic inflammatory demyelinating polyneuritis
G61.89	Other inflammatory polyneuropathies
G62.89	Other specified polyneuropathies

## Revision History

1/18/2022	Updated Primary immunodeficiency (PID)/Wiskott -Aldrich syndrome indication to Primary immunodeficiencies (PI) and moved Wiskott-Aldrich below as an example for clarification
11/29/2021	Added coverage of Hizentra to Primary immunodeficiencies to capture FDA approval Added PANDAS/PANS coverage as per Massachusetts DOI Bulletin 2021-06 for Massachusetts residents under the Commercial line of business, starting 1/1/2022
2/1/2021	Removed the following from Renewal Criteria: <ul style="list-style-type: none"> <li>• “Patient continues to meet criteria identified in section III; “</li> </ul> Clarified Hizentra renewal criteria.
06/10/2020	Added J-Code (J1558): Injection, immune globulin, 100 mg (Xembify). J-Code effective date: <b>07/01/2020</b>
11/01/2019	-Added Xembify to this MP, included drug in title -Added under Dosing Limits: Prior to switching to Xembify, obtain patient’s serum IgG trough level to guide subsequent dose adjustment. Switching from immune globulin intravenous (human), 10% (IVIG) to XEMBIFY: calculate the dose by using a dose adjustment factor. Xembify is to be given one week after the last IVIG infusion. - Xembify NDC’s, Pkg sizes and Gm strength added to chart -Updated age restrictions for PID indication for Gammagard Liquid, Gamunex-C, Gammaked, HyQvia, Cuvitru, Xembify

## References

1. Hizentra [package insert]. Bern, Switzerland; CSL Behring AG; March 2018. Accessed November 2019.
2. HyQvia [package insert]. Westlake Village, CA; Baxter Healthcare Corporation; September 2016. Accessed November 2019.
3. Cuvitru [package insert]. Westlake Village, CA; Baxalta US Inc.; September 2016. Accessed November 2019.

4. Gammagard Liquid [package insert]. Westlake Village, CA; Baxter Healthcare Corporation; June 2016. Accessed November 2019.
5. Gamunex®-C [package insert]. Research Triangle, NC; Grifols Therapeutics, Inc.; March 2017. Accessed November 2019.
6. Gammaked™ [package insert]. Research Triangle, NC; Grifols Therapeutics, Inc.; September 2016. Accessed November 2019.
7. XEMBIFY(R) subcutaneous injection, immune globulin human-klhw subcutaneous injection. Grifols Therapeutics LLC (per FDA), Research Triangle Park, NC, 2019.
8. Jeffrey Modell Foundation Medical Advisory Board, 2013. 10 Warning Signs of Primary Immunodeficiency. Jeffrey Modell Foundation, New York, NY
9. Orange J, Hossny E, Weiler C, et al. Use of intravenous immunoglobulin in human disease: A review of evidence by members of the Primary Immunodeficiency Committee of the American Academy of Allergy, Asthma and Immunology. *J Allergy Clin Immunol* 2006;117(4 Suppl): S525-53.
10. Orange JS, Ballou M, Stiehm, et al. Use and interpretation of diagnostic vaccination in primary immunodeficiency: A working group report of the Basic and Clinical Immunology Interest Section of the American Academy of Allergy, Asthma & Immunology. *J Allergy Clin Immunol Vol* 130 (3).
11. Bonilla FA, Khan DA, Ballas ZK, et al. Practice Parameter for the diagnosis and management of primary immunodeficiency. *J Allergy Clin Immunol* 2015 Nov;136(5):1186-205.e1-78.
12. Emerson GG, Herndon CN, Sreih AG. Thrombotic complications after intravenous immunoglobulin therapy in two patients. *Pharmacotherapy*. 2002; 22:1638-1641.
13. Department of Health (London). Clinical Guidelines for Immunoglobulin Use: Update to Second Edition. August, 2011.
14. Provan, Drew, et al. "Clinical guidelines for immunoglobulin use." Department of Health Publication, London (2008).
15. Dantal J. Intravenous Immunoglobulins: In-Depth Review of Excipients and Acute Kidney Injury Risk. *Am J Nephrol* 2013; 38:275-284.
16. Immune Deficiency Foundation. Diagnostic & Clinical Care Guidelines for Primary Immunodeficiency Diseases. 3<sup>rd</sup> Ed. 2015. Avail at: [https://primaryimmune.org/sites/default/files/publications/2015-Diagnostic-and-Clinical-Care-Guidelines-for-PI\\_1.pdf](https://primaryimmune.org/sites/default/files/publications/2015-Diagnostic-and-Clinical-Care-Guidelines-for-PI_1.pdf).
17. Jennifer Frankovich, Susan Swedo, Tanya Murphy, Russell C. Dale, Dritan Agalliu, Kyle Williams, Michael Daines, Mady Hornig, Harry Chugani, Terence Sanger, Eyal Muscal, Mark Pasternack, Michael Cooperstock, Hayley Gans, Yujuan Zhang, Madeleine Cunningham, Gail Bernstein, Reuven Bromberg, Theresa Willett, Kayla Brown, Bahare Farhadian, Kiki Chang, Daniel Geller, Joseph Hernandez, Janell Sherr, Richard Shaw, Elizabeth Latimer, James Leckman, Margo Thienemann, and PANS/PANDAS Consortium. *Journal of Child and Adolescent Psychopharmacology*. Sep 2017.574-593. <http://doi.org/10.1089/cap.2016.0148>