

SCIG (immune globulin SQ): Hizentra®, Gammagard Liquid®, Gammagard Liquid ERC®, Gamunex®-C, Gammaked™, HyQvia®, Cuvitru®, Cutaquig®, Xembify®
(Subcutaneous)

Document Number: OHSU HEALTHSERVICES-0059

Last Review Date: 08/05/2025

Date of Origin: 7/20/2010

Dates Reviewed: 09/2010, 12/2010, 03/2011, 06/2011, 09/2011, 12/2011, 03/2012, 06/2012, 09/2012, 12/2012, 03/2013, 06/2013, 09/2013, 12/2013, 03/2014, 09/2014, 12/2014, 03/2015, 06/2015, 09/2015, 12/2015, 03/2016, 06/2016, 09/2016, 12/2016, 03/2017, 06/2017, 09/2017, 12/2017, 03/2018, 04/2018, 06/2018, 10/2018, 01/2019, 08/2019, 10/2019, 10/2020, 10/2021, 12/2021, 07/2022, 10/2022, 05/2023, 11/2023, 02/2024, 08/2024, 08/2025

I. Length of Authorization

- Initial: Prior authorization validity will be provided initially for 6 months.
- Renewal: Prior authorization validity may be renewed every 12 months thereafter.

II. Dosing Limits

Max Units (per dose and over time) [HCPCS Unit]:

| Drug Name | Billable units/28 days |
|---|---|
| Hizentra | 1840 (CIDP) 1680 (All other indications) |
| Gamunex-C, Gammaked, & Gammagard liquid/ERC | 336 |
| Cuvitru & Cutaquig | 1600 |

| Drug Name | Loading Dose Billable units | Maintenance Dose Billable units/21 days |
|---------------|--|--|
| HyQvia (CIDP) | Week 1: 0 Week 2: 400 Week 3: 400 Week 4: 800 Week 6: 1200 Week 9: 1600 | 1600 |

| | | |
|--------------------------------|---|------|
| HyQvia (All other indications) | Week 1: 300 Week 2: 600 Week 4: 900 | 1200 |
| Xembify | 180 daily for 5 days | 1680 |

III. Initial Approval Criteria ^{1-9,13,16,19}

Coverage is provided in the following conditions:

- Baseline values for BUN and serum creatinine obtained within 30 days of request; **AND**

Primary Immunodeficiency (PID) † ^{1-9, 12,13,19,36}

Such as: Wiskott -Aldrich syndrome, x-linked agammaglobulinemia, 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]*

- Patient is at least 2 years of age; **AND**
 - Patient has an IgG level <200 mg/dL; **OR**
 - Patient meets 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, deep skin or organ abscesses
 - Persistent thrush in the mouth or fungal infection on the skin
 - Need for intravenous antibiotics to clear infections
 - Two or more deep-seated infections including septicemia
 - Family history of PID; **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 and HyQvia ONLY] † Φ
3,4,22,37

- Patient is at least 18 years of age; **AND**
- Physician has assessed baseline disease severity utilizing an objective measure/tool (e.g., INCAT, Medical Research Council (MRC) muscle strength, 6-MWT, Rankin, Modified Rankin, etc.); **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 Section IV for criteria)
- § Refer to the IVIG (immune globulin IV) medical necessity criteria (Document Number: IC-0071) for the relevant intravenous criteria requirements

Acquired Immune Deficiency Secondary to Chronic Lymphocytic Leukemia (CLL)/ Small Lymphocytic Lymphoma (SLL) ‡ 32,33,36

- Patient has an IgG level <200 mg/dL; **OR**
- Patient has an IgG level <500 mg/dL; **AND**
 - Patient has recurrent sinopulmonary infections requiring IV antibiotics or hospitalization; **OR**
- Patient meets 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, deep skin or organ abscesses
 - Persistent thrush in the mouth or fungal infection on the skin
 - 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
- **Note:** other secondary immunodeficiencies resulting in hypogammaglobulinemia and/or B-cell aplasia will be evaluated on a case-by-case basis

† FDA Approved Indication(s); ‡ Compendia Recommended Indication(s); Φ Orphan Drug

IV. Renewal Criteria^{1-9,16,19,32,33}

Coverage may be renewed based upon the following criteria:

- Patient continues to meet the indication-specific relevant criteria identified in section III; **AND**
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include: severe hypersensitivity/anaphylaxis, thrombosis, aseptic meningitis syndrome, hemolytic anemia, hyperproteinemia, acute lung injury, etc.; **AND**
- BUN and serum creatinine obtained within the last 6 months and the concentration and rate of infusion have been adjusted accordingly; **AND**

Primary Immunodeficiency (PID)

- 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) [Hizentra and HyQvia ONLY]**
- Renewals will be authorized for patients that have demonstrated a beneficial clinical response to maintenance therapy, without relapses, based on an objective clinical measuring tool (e.g., INCAT, Medical Research Council (MRC) muscle strength, 6-MWT, Rankin, Modified Rankin, etc.); **OR**
- Patient is re-initiating maintenance therapy after experiencing a relapse while on Hizentra or HyQvia; **AND**
 - Patient improved and stabilized on IVIG treatment: **AND**
 - Patient was NOT receiving maximum dosing of Hizentra or HyQvia prior to relapse

Acquired Immune Deficiency secondary to Chronic Lymphocytic Leukemia (CLL)/ Small Lymphocytic Lymphoma (SLL)

- Disease response as evidenced by one or more of the following:
 - Decrease in the frequency of infection
 - Decrease in the severity of infection; **AND**
- Continued treatment is necessary to decrease the risk of infection

V. Dosage/Administration^{1-9,14-16,32-35}

Dosing should be calculated using adjusted body weight if one or more of the following criteria are met:

- Patient's body mass index (BMI) is 30 kg/m² or more; **OR**
- Patient's actual body weight is 20% higher than his or her ideal body weight (IBW)

Use the following dosing formulas to calculate the adjusted body weight (round dose to nearest 5 gram increment in adult patients)

Dosing formulas

BMI = $703 \times (\text{weight in pounds} / \text{height in inches}^2)$

IBW (kg) for males = $50 + [2.3 (\text{height in inches} - 60)]$

IBW (kg) for females = $45.5 + [2.3 \times (\text{height in inches} - 60)]$

Adjusted body weight = $\text{IBW} + 0.4 (\text{actual body weight} - \text{IBW})$

This information is not meant to replace clinical decision making when initiating or modifying medication therapy and should only be used as a guide. Patient-specific variables should be taken into account.

| Indication | Dose ❖ | | | | | | | | | | | | | | | | | | | | |
|--|--|----------------|--|------------------------------|--|--|-------|-----------------|---------------|---|-------------|----------------|---|--------------------------|-------------|---|--------------------------|-------------|---|--------------------------|-------------|
| Chronic Inflammatory Demyelinating Polyneuropathy (CIDP) | <u>Hizentra:</u> <ul style="list-style-type: none">Initiate therapy 1 week after the last IVIG doseThe recommended subcutaneous dose is 0.2 g/kg (1 mL/kg) body weight per week, administered in 1 or 2 sessions over 1 or 2 consecutive days.If CIDP symptoms worsen, consider increasing the dose to 0.4 g/kg (2 mL/kg) body weight per week, administered in 2 sessions over 1 or 2 consecutive days.If CIDP symptoms worsen on the 0.4 g/kg body weight per week dose, consider re-initiating therapy with an IVIG while discontinuing Hizentra. | | | | | | | | | | | | | | | | | | | | |
| | <u>HyQvia:</u> <ul style="list-style-type: none">Patients must be on stable doses of IVIG prior to starting HyQvia.Before initiating therapy with HyQvia, calculate the weekly equivalent dose to plan for the ramp-up schedule (<i>see table below</i>): previous IVIG dose (g)/number of weeks between IVIG dosesThe starting dose and dosing frequency of HyQvia is the same as the patient’s previous IVIG treatment.The typical dosing interval range in the clinical trial for HyQvia was 4 weeks. For patients with less frequent IVIG dosing (greater than 4 weeks), the dosing interval can be converted to 3 or 4 weeks while maintaining the same monthly equivalent IgG dose.Administer the calculated one-week dose (1st infusion) 2 weeks after the last IVIG infusion. One week after the first HyQvia dose, administer another weekly equivalent dose (2nd infusion).A ramp-up period can take up to 9 weeks, depending on the dosing interval and tolerability (<i>see table below</i>) | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><th colspan="3">HyQvia Dose Ramp-up Schedule</th></tr><tr><th>Week*</th><th>Infusion Number</th><th>Dose Interval</th></tr><tr><td>1</td><td>No infusion</td><td>Not applicable</td></tr><tr><td>2</td><td>1st infusion</td><td>1-week-dose</td></tr><tr><td>3</td><td>2nd infusion</td><td>1-week-dose</td></tr><tr><td>4</td><td>3rd infusion</td><td>2-week-dose</td></tr></table> | | | HyQvia Dose Ramp-up Schedule | | | Week* | Infusion Number | Dose Interval | 1 | No infusion | Not applicable | 2 | 1 st infusion | 1-week-dose | 3 | 2 nd infusion | 1-week-dose | 4 | 3 rd infusion | 2-week-dose |
| | HyQvia Dose Ramp-up Schedule | | | | | | | | | | | | | | | | | | | | |
| Week* | Infusion Number | Dose Interval | | | | | | | | | | | | | | | | | | | |
| 1 | No infusion | Not applicable | | | | | | | | | | | | | | | | | | | |
| 2 | 1 st infusion | 1-week-dose | | | | | | | | | | | | | | | | | | | |
| 3 | 2 nd infusion | 1-week-dose | | | | | | | | | | | | | | | | | | | |
| 4 | 3 rd infusion | 2-week-dose | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

| Indication | Dose ❖ | | | |
|---|--|---|--------------------------|----------------|
| | | 5 | No infusion | Not applicable |
| | | 6 | 4 th infusion | 3-week-dose |
| | | 7 | No infusion | Not applicable |
| | | 8 | No infusion | Not applicable |
| | | 9 | 5 th infusion | 4-week-dose |
| | <i>*Clock starts one week after the last IVIG dose is administered. Week 1 is the week that starts one week after the last IVIG dose.</i> | | | |
| Primary Immune Deficiency (PID) AND Acquired Immune Deficiency secondary to Chronic Lymphocytic Leukemia (CLL)/Small Lymphocytic Lymphoma (SLL) | <u>Hizentra:</u> | | | |
| | <ul style="list-style-type: none">Switching from IVIG<ul style="list-style-type: none">Initiate therapy 1 to 2 weeks after the last IVIG doseWeekly dose: 1.37*(previous IVIG dose (g)/number of weeks between IVIG doses)May be administered from daily up to every two weeks (biweekly)Biweekly dose: twice the weekly dose (using calculation above)Frequent dosing (2-7 times per week): divide the calculated weekly dose by the desired number of times per weekSwitching from SCIG<ul style="list-style-type: none">Initiate therapy 1 week after the last SCIG doseWeekly dose (in grams) should be same as the weekly dose of prior SCIG treatment (in grams)Biweekly dose: multiply the prior weekly dose by 2Frequent dosing (2-7 times per week): divide the prior weekly dose by the desired number of times per week | | | |
| | <u>Gamunex-C/Gammaked/Gammagard Liquid/Gammagard Liquid ERC:</u> | | | |
| | <ul style="list-style-type: none">Switching from IVIG<ul style="list-style-type: none">Initiate therapy 1 week after the last IVIG doseWeekly dose: 1.37*(previous IVIG dose(g)/number of weeks between IVIG doses) | | | |

| Indication | Dose | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---------------------------|--|--|------|-----------------|---------------------------|---------------------------|---|--------------------------|----------------------|----------------------|---|--------------------------|----------------------|----------------------|---|--------------------------|---------------------|----------------------|---|--------------------------|---------------------|---------------------|
| | <p><u>HyQvia:</u></p> <ul style="list-style-type: none">Naïve to immune globulin treatment or switching from SCIG: 300 to 600 mg/kg at 3 to 4 week intervals after initial ramp-up (<i>see table below</i>)Switching from IVIG: use the same dose and frequency as the previous IV treatment after initial ramp-up (<i>see table below</i>) <p>NOTE: For patients previously on another IgG treatment, initiate therapy 1 week after the last infusion of IVIG or SCIG</p> <table><tr><th colspan="4">HyQvia Initial Treatment Interval/Dosage Ramp-up Schedule</th></tr><tr><th>Week</th><th>Infusion Number</th><th>3-week treatment interval</th><th>4-week treatment interval</th></tr><tr><td>1</td><td>1st infusion</td><td>Dose in Grams X 0.33</td><td>Dose in Grams X 0.25</td></tr><tr><td>2</td><td>2nd infusion</td><td>Dose in Grams X 0.67</td><td>Dose in Grams X 0.50</td></tr><tr><td>4</td><td>3rd infusion</td><td>Total Dose in Grams</td><td>Dose in Grams X 0.75</td></tr><tr><td>7</td><td>4th infusion</td><td>Total Dose in Grams</td><td>Total Dose in Grams</td></tr></table> | HyQvia Initial Treatment Interval/Dosage Ramp-up Schedule | | | | Week | Infusion Number | 3-week treatment interval | 4-week treatment interval | 1 | 1 st infusion | Dose in Grams X 0.33 | Dose in Grams X 0.25 | 2 | 2 nd infusion | Dose in Grams X 0.67 | Dose in Grams X 0.50 | 4 | 3 rd infusion | Total Dose in Grams | Dose in Grams X 0.75 | 7 | 4 th infusion | Total Dose in Grams | Total Dose in Grams |
| HyQvia Initial Treatment Interval/Dosage Ramp-up Schedule | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week | Infusion Number | 3-week treatment interval | 4-week treatment interval | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 st infusion | Dose in Grams X 0.33 | Dose in Grams X 0.25 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 nd infusion | Dose in Grams X 0.67 | Dose in Grams X 0.50 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3 rd infusion | Total Dose in Grams | Dose in Grams X 0.75 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 4 th infusion | Total Dose in Grams | Total Dose in Grams | | | | | | | | | | | | | | | | | | | | | | |
| | <p><u>Xembify:</u></p> <ul style="list-style-type: none">Switching from IVIG<ul style="list-style-type: none">Start treatment one week after the last IVIG infusion.Weekly dose: 1.37*[previous monthly (or every 3- week) IVIG dose in grams/number of weeks between IVIG doses]May be administered from daily up to every two weeks (biweekly)Biweekly dose: multiply the prior weekly dose by 2Frequent dosing (2-7 times per week): divide the prior weekly dose by the desired number of times per weekSwitching from SCIG<ul style="list-style-type: none">Weekly dose (in grams) should be same as the weekly dose of prior SCIG treatment (in grams)May be administered from daily up to every two weeks (biweekly)Biweekly dose: multiply the prior weekly dose by 2Frequent dosing (2-7 times per week): divide the prior weekly dose by the desired number of times per weekTreatment naïve<ul style="list-style-type: none">Loading dose: 150 mg/kg/day for 5 consecutive daysMaintenance dose: 150 mg/kg/week - weekly administrations starts at Day 8May be administered from daily up to every two weeks (biweekly) | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p><u>Cuvitru:</u></p> <ul style="list-style-type: none">Switching from IVIG or HyQvia<ul style="list-style-type: none">Initiate therapy 1 week after the last IVIG or Hyqvia doseWeekly dose: 1.30*(previous IVIG or HyQvia dose (g)/number of weeks between IVIG or HyQvia doses)May be administered from daily up to every two weeks (biweekly) | | | | | | | | | | | | | | | | | | | | | | | | |

| Indication | Dose ❖ |
|------------|--|
| | <ul style="list-style-type: none"> ○ Biweekly dose: twice the weekly dose (using calculation above) ○ Frequent dosing (2-7 times per week): divide the calculated weekly dose by the desired number of times per week <ul style="list-style-type: none"> ▪ Switching from SCIG <ul style="list-style-type: none"> ○ Weekly dose (in grams) should be same as the weekly dose of prior SCIG treatment (in grams) ○ May be administered from daily up to every two weeks (biweekly) ○ Biweekly dose: multiply the prior weekly dose by 2 ○ Frequent dosing (2-7 times per week): divide the prior weekly dose by the desired number of times per week |
| | <p><u>Cutaquig:</u></p> <ul style="list-style-type: none"> ▪ Switching from IVIG <ul style="list-style-type: none"> ○ Weekly dose: $1.30 \times (\text{previous IVIG dose (g)} / \text{number of weeks between IVIG doses})$ ○ May be administered from daily up to every two weeks (biweekly) ○ Biweekly dose: multiply the calculated weekly dose by 2 ○ Frequent dosing (2-7 times per week): divide the calculated weekly dose by the desired number of times per week ▪ Switching from SCIG <ul style="list-style-type: none"> ○ Weekly dose (in grams) should be same as the weekly dose of prior SCIG treatment (in grams) ○ May be administered from daily up to every two weeks (biweekly) ○ Biweekly dose: multiply the prior weekly dose by 2 ○ Frequent dosing (2-7 times per week): divide the prior weekly dose by the desired number of times per week |

❖ Dosing for immunoglobulin products is highly variable depending on numerous patient specific factors, indication(s), and the specific product selected. For specific dosing regimens refer to current prescribing literature.

VI. Billing Code/Availability Information

HCPSC Code(s) & NDC(s):

| Drug Name | Manufacturer | HCPSC Code | 1 Billable unit | NDC | IgG (grams) per vial/syringe | Volume (mL) |
|---------------------------------------|----------------|---|-----------------|---------------|------------------------------|-------------|
| Hizentra 20%* (Vials) | CSL Behring AG | J1559 – Injection, immune globulin (Hizentra), 100 mg | 100 mg | 44206-0451-01 | 1 | 5 |
| | | | | 44206-0452-02 | 2 | 10 |
| | | | | 44206-0454-04 | 4 | 20 |
| | | | | 44206-0455-10 | 10 | 50 |
| Hizentra 20%* (Prefilled Syringes) | CSL Behring AG | J1559 – Injection, immune globulin (Hizentra), 100 mg | 100 mg | 44206-0456-21 | 1 | 5 |
| | | | | 44206-0457-22 | 2 | 10 |

| Drug Name | Manufacturer | HCP Code | 1 Billable unit | NDC | IgG (grams) per vial/syringe | Volume (mL) |
|--|-------------------------------------|---|-----------------|---------------|------------------------------|-------------|
| | | | | 44206-0458-24 | 4 | 20 |
| | | | | 44206-0455-25 | 10 | 50 |
| Gammaked 10%* | Grifols Therapeutics | J1561 – Injection, immune globulin, (Gamunex-C/ Gammaked), non-lyophilized (e.g., liquid), 500 mg | 500 mg | 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%* | Grifols Therapeutics | J1561 – Injection, immune globulin, (Gamunex-C/ Gammaked), non-lyophilized (e.g., liquid), 500 mg | 500 mg | 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 ERC | Takeda Pharmaceuticals U.S.A., Inc. | J3590 – unclassified biologics | N/A | 00944-2705-50 | 5 | 50 |
| | | | | 00944-2705-10 | 10 | 100 |
| Gammagard Liquid 10%* | Takeda Pharmaceuticals U.S.A., Inc. | J1569 – Injection, immune globulin, (Gammagard liquid), non-lyophilized, (e.g., liquid), 500 mg | 500 mg | 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) | Takeda Pharmaceuticals U.S.A., Inc. | J1575 – Injection, immune globulin/ hyaluronidase, (Hyqvia), 100 mg immune globulin | 100 mg | 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%* | Takeda Pharmaceuticals U.S.A., Inc. | J1555 – Injection, immune globulin (Cuvitru), 100 mg | 100 mg | 00944-2850-01 | 1 | 5 |
| | | | | 00944-2850-03 | 2 | 10 |
| | | | | 00944-2850-05 | 4 | 20 |
| | | | | 00944-2850-07 | 8 | 40 |
| | | | | 00944-2850-09 | 10 | 50 |
| Cutaquig 16.5%* | Octapharma | J1551 – Injection, immune globulin (cutaquig), 100 mg | 100 mg | 00069-1061-01 | 1 | 6 |
| | | | | 00069-1802-01 | 1.65 | 10 |
| | | | | 00069-1476-01 | 2 | 12 |

| Drug Name | Manufacturer | HCP Code | 1 Billable unit | NDC | IgG (grams) per vial/syringe | Volume (mL) |
|--------------------------------------|--------------|---|-----------------|---------------|------------------------------|-------------|
| | | | | 00069-1960-01 | 3.3 | 20 |
| | | | | 00069-1509-01 | 4 | 24 |
| | | | | 00069-1965-01 | 8 | 48 |
| Xembify 20%* | Grifols | J1558 – Injection, immune globulin (Xembify), 100 mg | 100 mg | 13533-0810-05 | 1 | 5 |
| | | | | 13533-0810-10 | 2 | 10 |
| | | | | 13533-0810-20 | 4 | 20 |
| | | | | 13533-0810-50 | 10 | 50 |
| Immune Globulin, Human, Subcutaneous | N/A | J3590 – unclassified biologics C9399 – unclassified drugs or biologicals | N/A | N/A | N/A | N/A |

*90284 – immune globulin (SCIg), human, for use in subcutaneous infusions, 100 mg, each

VII. References

1. Xembify [package insert]. Research Triangle Park, NC; Grifols Therapeutics, LLC; July 2024. Accessed July 2025.
2. Cutaquig [package insert]. Vienna, Austria; Octapharma; March 2025. Accessed July 2025.
3. Hizentra [package insert]. Bern, Switzerland; CSL Behring AG; April 2023. Accessed July 2025.
4. HyQvia [package insert]. Cambridge, MA; Takeda Pharmaceuticals U.S.A., Inc.; July 2025. Accessed July 2025.
5. Cuvitru [package insert]. Cambridge, MA; Takeda Pharmaceuticals U.S.A., Inc.; February 2025. Accessed July 2025.
6. Gammagard Liquid [package insert]. Cambridge, MA; Takeda Pharmaceuticals U.S.A., Inc.; September 2024. Accessed July 2025.
7. Gamunex-C [package insert]. Research Triangle Park, NC; Grifols Therapeutics, LLC; January 2020. Accessed July 2025.
8. Gammaked [package insert]. Research Triangle Park, NC; Grifols Therapeutics, LLC; January 2020. Accessed July 2025.
9. Gammagard Liquid ERC [package insert]. Cambridge, MA; Takeda Pharmaceuticals U.S.A., Inc.; June 2025. Accessed July 2025.
10. Jeffrey Modell Foundation Medical Advisory Board, 2013. 10 Warning Signs of Primary Immunodeficiency. Jeffrey Modell Foundation, New York, NY
11. 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.
12. 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).

13. 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.
14. Emerson GG, Herndon CN, Sreih AG. Thrombotic complications after intravenous immunoglobulin therapy in two patients. *Pharmacotherapy*. 2002;22:1638-1641.
15. Department of Health (London). Clinical Guidelines for Immunoglobulin Use: Update to Second Edition. August, 2011.
16. Provan, Drew, et al. "Clinical guidelines for immunoglobulin use." Department of Health Publication, London (2008).
17. Dantal J. Intravenous Immunoglobulins: In-Depth Review of Excipients and Acute Kidney Injury Risk. *Am J Nephrol* 2013;38:275-284.
18. Immune Deficiency Foundation. Diagnostic & Clinical Care Guidelines for Primary Immunodeficiency Diseases. 3rd Ed. 2015. Avail at: https://primaryimmune.org/sites/default/files/publications/2015-Diagnostic-and-Clinical-Care-Guidelines-for-PI_1.pdf.
19. Perez EE, Orange JS, Bonilla F, et al. Update on the use of immunoglobulin in human disease: A review of evidence. *J Allergy Clin Immunol*. 2017 Mar;139(3S):S1-S46.
20. Alonso W, Vandenberg P, Lang J, et al. Immune globulin subcutaneous, human 20% solution (Xembify®), a new high concentration immunoglobulin product for subcutaneous administration. *Biologicals*. 2020;64:34-40.
21. Kobayashi RH, Gupta S, Melamed I, et al. Clinical Efficacy, Safety and Tolerability of a New Subcutaneous Immunoglobulin 16.5% (octanorm [cutaquin®]) in the Treatment of Patients with Primary Immunodeficiencies. *Front Immunol*. February 2019 | Volume 10 | Article 40.
22. van Schaik IN, Bril V, van Geloven N, et al. Subcutaneous immunoglobulin for maintenance treatment in chronic inflammatory demyelinating polyneuropathy (CIDP), a multicenter randomised double-blind placebo-controlled trial: the PATH Study. *Lancet Neurol*. 2017;17(1):35-46.
23. Hagan JB, Fasano MB, Spector S, et al. Efficacy and safety of a new 20% immunoglobulin preparation for subcutaneous administration, IgPro20, in patients with primary immunodeficiency. *J Clin Immunol*. 2010;30(5):734-745.
24. Jolles S, Borte M, Nelson R, et al. Long-term efficacy, safety, and tolerability of Hizentra for treatment of primary immunodeficiency disease. *Clin Immunol*. 2014;150(2):161-169.
25. Wasserman RL, Melamed I, Nelson RP Jr, et al. Pharmacokinetics of subcutaneous IgPro20 in patients with primary immunodeficiency. *Clin Pharmacokinet*. 2011;50(6):405-414.
26. Wasserman RL, Melamed I, Kobrynski L, et al. Efficacy, Safety, and Pharmacokinetics of a 10% Liquid Immune Globulin Preparation (GAMMAGARD LIQUID, 10%) Administered Subcutaneously in Subjects with Primary Immunodeficiency Disease. *J Clin Immunol*. 2011 Mar 22. [Epub ahead of print]
27. Food and Drug Administration. Safety, efficacy, and pharmacokinetic studies to support marketing of immune globulin intravenous (human) as replacement therapy for primary humoral immunodeficiency. <https://www.fda.gov/regulatory-information/search-fda-guidance-documents/safety-efficacy-and-pharmacokinetic-studies-support-marketing-immune-globulin-intravenous-human>. Accessed July 2025

28. Wasserman RL, Melamed I, Stein MR, et al; and IGSC, 10% with rHuPH20 Study Group. Recombinant human hyaluronidase-facilitated subcutaneous infusion of human immunoglobulins for primary immunodeficiency. *J Allergy Clin Immunol*. 2012;130(4):951-957.
29. Suez D, Stein M, Gupta S, et al. Efficacy, safety, and pharmacokinetics of a novel human immune globulin subcutaneous, 20% in patients with primary immunodeficiency diseases in North America. *J Clin Immunol*. 2016;36(7):700-712.
30. Roifman CM, Schroeder H, Berger M, et al. Comparison of the efficacy of IGIV-C, 10% (caprylate/chromatography) and IGIV-SD, 10% as replacement therapy in primary immune deficiency: a randomized double-blind trial. *Int Immunopharmacol*. 2003;3(9):1325-1333.
31. Roifman CM, Schroeder H, Berger M, et al, and the IGIV-C in PID Study Group. Comparison of the efficacy of IGIV-C, 10% (caprylate/chromatography) and IGIV-SD, 10% as replacement therapy in primary immune deficiency: a randomized double-blind trial. *Int Immunopharmacol*. 2003;3:1325-1333. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma, Version 3.2025. National Comprehensive Cancer Network, 2025. The NCCN Compendium® is a derivative work of the NCCN Guidelines®. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc. To view the most recent and complete version of the Compendium, go online to NCCN.org. Accessed July 2025. Chapel H, Dicato M, Gamm H, et al. Immunoglobulin replacement in patients with chronic lymphocytic leukaemia: a comparison of two dose regimes. *Br J Haematol* 1994 Sep;88(1):209-12. doi: 10.1111/j.1365-2141.1994.tb05002.x.
32. Grindeland JW, Grindeland CJ, Moen C, Leedahl ND, Leedahl DD. Outcomes Associated With Standardized Ideal Body Weight Dosing of Intravenous Immune Globulin in Hospitalized Patients: A Multicenter Study. *Ann Pharmacother*. 2020 Mar;54(3):205-212. doi: 10.1177/1060028019880300. Epub 2019 Oct 3. rEpland, K., Suez, D. & Paris, K. A clinician's guide for administration of high-concentration and facilitated subcutaneous immunoglobulin replacement therapy in patients with primary immunodeficiency diseases. *Allergy Asthma Clin Immunol* 18, 87 (2022). <https://doi.org/10.1186/s13223-022-00726-7> Jeffrey Modell Foundation Medical Advisory Board, 2021. 10 Warning Signs of Primary Immunodeficiency. Jeffrey Modell Foundation, New York, NY. https://res.cloudinary.com/info4pi/image/upload/v1662306262/JMF_10_Signs_Generic_082421_v2_dcadf429cc.pdf?updated_at=2022-09-04T15:44:23.120Z. Accessed July 2025.
33. Van den Bergh PYK, van Doorn PA, Hadden RDM, et al. European Academy of Neurology/Peripheral Nerve Society guideline on diagnosis and treatment of chronic inflammatory demyelinating polyradiculoneuropathy: Report of a joint Task Force-Second revision. *Eur J Neurol*. 2021 Nov;28(11):3556-3583. Erratum in: *Eur J Neurol*. 2022 Apr;29(4):1288. PMID: 34327760.
34. Bril V, Hadden RDM, Brannagan TH 3rd, et al. Hyaluronidase-facilitated subcutaneous immunoglobulin 10% as maintenance therapy for chronic inflammatory demyelinating polyradiculoneuropathy: The ADVANCE-CIDP 1 randomized controlled trial. *J Peripher Nerv Syst*. 2023 Sep;28(3):436-449. doi: 10.1111/jns.12573. Epub 2023 Jul 6. PMID: 37314318. Hassan S, Duff K, Wisseh S, et al. Rationale and Design of a Phase 3b Study of the Long-Term Tolerability

and Safety of HyQvia in Chronic Inflammatory Demyelinating Polyradiculoneuropathy (CIDP): ADVANCE-CIDP 3 (4331). Neurology 2020-04-14 94(15_supplement): 4331

https://doi.org/10.1212/WNL.94.15_supplement.4331.yFirst Coast Service Options, Inc. Local Coverage Article: Billing and Coding: Immune Globulin (A57778). Centers for Medicare & Medicaid Services, Inc. Updated on 01/24/2025 with effective date 01/01/2025. Accessed July 2025.

35. Novitas Solutions, Inc. Local Coverage Article: Billing and Coding: Immune Globulin (A56786). Centers for Medicare & Medicaid Services, Inc. Updated on 01/24/2025 with effective date 01/01/2025. Accessed July 2025.

36. Wisconsin Physicians Service Insurance Corporation. Local Coverage Article: Billing and Coding: Immune Globulins (A57554). Centers for Medicare & Medicaid Services, Inc. Updated on 06/18/2025 with effective date 01/01/2025. Accessed July 2025.

Appendix 1 – Covered Diagnosis Codes (All Products)

| ICD-10 | ICD-10 Description |
|--------|---|
| C83.00 | Small cell B-cell lymphoma, unspecified site |
| C83.01 | Small cell B-cell lymphoma, lymph nodes of head, face, and neck |
| C83.02 | Small cell B-cell lymphoma, intrathoracic lymph nodes |
| C83.03 | Small cell B-cell lymphoma, intra-abdominal lymph nodes |
| C83.04 | Small cell B-cell lymphoma, lymph nodes of axilla and upper limb |
| C83.05 | Small cell B-cell lymphoma, lymph nodes of inguinal region and lower limb |
| C83.06 | Small cell B-cell lymphoma, intrapelvic lymph nodes |
| C83.07 | Small cell B-cell lymphoma, spleen |
| C83.08 | Small cell B-cell lymphoma, lymph nodes of multiple sites |
| C83.09 | Small cell B-cell lymphoma, extranodal and solid organ sites |
| C91.10 | Chronic lymphocytic leukemia of B-cell type not having achieved remission |
| C91.12 | Chronic lymphocytic leukemia of B-cell type in relapse |
| 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 |

| ICD-10 | ICD-10 Description |
|--------|--|
| 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 |

Additional covered diagnosis codes applicable to Hizentra and Hyqvia ONLY:

| ICD-10 | ICD-10 Description |
|--------|---|
| G61.81 | Chronic inflammatory demyelinating polyneuritis |
| G61.89 | Other inflammatory polyneuropathies |
| G62.89 | Other specified polyneuropathies |

Appendix 2 – Centers for Medicare and Medicaid Services (CMS)

The preceding information is intended for non-Medicare coverage determinations. Medicare coverage for outpatient (Part B) drugs is outlined in the Medicare Benefit Policy Manual (Pub. 100-2), Chapter 15, §50 Drugs and Biologicals. In addition, National Coverage Determinations (NCDs) and/or Local Coverage Determinations (LCDs) may exist and compliance with these policies is required where applicable. Local Coverage Articles (LCAs) may also exist for claims payment purposes or to clarify benefit eligibility under Part B for drugs which may be self-administered. The following link may be used to search for NCD, LCD, or LCA documents: <https://www.cms.gov/medicare-coverage-database/search.aspx>. Additional indications, including any preceding information, may be applied at the discretion of the health plan.

| Medicare Part B Covered Diagnosis Codes | | |
|---|--------------------------|--|
| Jurisdiction | NCD/LCA/LCD Document (s) | Contractor |
| H, L | A56786 | Novitas Solutions, Inc. |
| N | A57778 | First Coast Service Options, Inc. |
| 5, 8 | A57554 | Wisconsin Physicians Service Insurance Corporation (WPS) |

| Medicare Part B Administrative Contractor (MAC) Jurisdictions | | |
|---|---|---|
| Jurisdiction | Applicable State/US Territory | Contractor |
| E (1) | CA, HI, NV, AS, GU, CNMI | Noridian Healthcare Solutions, LLC |
| F (2 & 3) | AK, WA, OR, ID, ND, SD, MT, WY, UT, AZ | Noridian Healthcare Solutions, LLC |
| 5 | KS, NE, IA, MO | Wisconsin Physicians Service Insurance Corp (WPS) |
| 6 | MN, WI, IL | National Government Services, Inc. (NGS) |
| H (4 & 7) | LA, AR, MS, TX, OK, CO, NM | Novitas Solutions, Inc. |
| 8 | MI, IN | Wisconsin Physicians Service Insurance Corp (WPS) |
| N (9) | FL, PR, VI | First Coast Service Options, Inc. |
| J (10) | TN, GA, AL | Palmetto GBA |
| M (11) | NC, SC, WV, VA (excluding below) | Palmetto GBA |
| L (12) | DE, MD, PA, NJ, DC (includes Arlington & Fairfax counties and the city of Alexandria in VA) | Novitas Solutions, Inc. |
| K (13 & 14) | NY, CT, MA, RI, VT, ME, NH | National Government Services, Inc. (NGS) |
| 15 | KY, OH | CGS Administrators, LLC |