

Clinical Policy: Omalizumab (Xolair)

Reference Number: CP.PCH.49 Effective Date: 03.01.23 Last Review Date: 05.24 Line of Business: Commercial, HIM

Coding Implications Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Description

Omalizumab (Xolair[®]) is an anti-immunoglobulin E (IgE) antibody

FDA Approved Indication(s)

Xolair is indicated for:

- Moderate to severe persistent asthma in adults and pediatric patients 6 years of age and older with a positive skin test or in vitro reactivity to a perennial aeroallergen and symptoms that are inadequately controlled with inhaled corticosteroids
- Chronic rhinosinusitis with nasal polyps (CRSwNP) in adult patients 18 years of age and older with inadequate response to nasal corticosteroids, as add-on maintenance treatment
- Chronic spontaneous urticaria (CSU) in adults and adolescents 12 years of age and older who remain symptomatic despite H1 antihistamine treatment
- Reduction of allergic reactions (Type I), including anaphylaxis, that may occur with accidental exposure to one or more foods in adult and pediatric patients aged 1 year and older with IgE-mediated food allergy. Xolair is to be used in conjunction with food allergen avoidance

Limitation(s) of use: Xolair is not indicated for the relief of acute bronchospasm or status asthmaticus, treatment of other allergic conditions, treatment of other forms of urticaria, or emergency treatment of allergic reactions including anaphylaxis.

Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of health plans affiliated with Centene Corporation[®] that Xolair is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

- A. Moderate to Severe Persistent Asthma (must meet all):
 - 1. Diagnosis of asthma;
 - 2. Prescribed by or in consultation with an allergist, immunologist, or pulmonologist;
 - 3. Age \geq 6 years;
 - 4. Member has experienced ≥ 2 exacerbations within the last 12 months, requiring any of the following despite adherent use of controller therapy (i.e., medium- to high-dose inhaled corticosteroid [ICS] plus either a long acting beta-2 agonist [LABA] or leukotriene modifier [LTRA] if LABA contraindication/intolerance):



- a. Oral/systemic corticosteroid treatment (or increase in dose if already on oral corticosteroid);
- b. Urgent care visit or hospital admission;
- c. Intubation;
- 5. Positive skin test or in vitro reactivity to a perennial aeroallergen (see Appendix D);
- 6. IgE level \geq 30 IU/mL;
- 7. Xolair is prescribed concurrently with an ICS plus either a LABA or LTRA;
- 8. Xolair is not prescribed concurrently with Cinqair[®], Fasenra[®], Nucala[®], Dupixent[®], or Tezspire[®];
- 9. Dose does not exceed 375 mg administered every 2 weeks (see Appendix E and F for dosing based on pre-treatment IgE level, weight, and age).

Approval duration: 6 months

- **B.** Chronic Spontaneous Urticaria (must meet all):
 - 1. Diagnosis of CSU (formerly known as chronic idiopathic urticaria [CIU]);
 - 2. Prescribed by or in consultation with a dermatologist, immunologist, or allergist;
 - 3. Age \geq 12 years;
 - 4. Failure of both of the following, unless clinically significant adverse effects are experienced or all are contraindicated (a and b):
 - a. Two antihistamines (including one second generation antihistamine e.g., cetirizine, levocetirizine, fexofenadine, loratadine, desloratadine) at maximum indicated doses, each used for ≥ 2 weeks;
 - b. A LTRA in combination with an antihistamine at maximum indicated doses for ≥ 2 weeks;
 - 5. Xolair is not prescribed concurrently with Cinqair, Fasenra, Nucala, Dupixent, or Tezspire;
 - 6. Dose does not exceed 300 mg every 4 weeks.

Approval duration: 6 months

- C. Chronic Rhinosinusitis with Nasal Polyps (must meet all):
 - 1. Diagnosis of CRSwNP with documentation of all of the following (a, b, and c):
 - a. Presence of nasal polyps;
 - b. Disease is bilateral;
 - c. Member has experienced signs and symptoms (e.g., nasal congestion/blockage/ obstruction, loss of smell, rhinorrhea) for ≥ 12 weeks;
 - 2. Prescribed by or in consultation with an allergist, immunologist, or otolaryngologist;
 - 3. Age \geq 18 years;
 - 4. Member has required the use of systemic corticosteroids for symptom control within the last 2 years, unless contraindicated or clinically significant adverse effects are experienced *(see Appendix B for examples)*;
 - Failure of maintenance therapy with at least two intranasal corticosteroids, one of which must be Xhance[™], each used for ≥ 4 weeks, unless contraindicated or clinically significant adverse effects are experienced (see *Appendix B for examples*);
 - 6. Xolair is prescribed concurrently with an intranasal corticosteroid, unless contraindicated or clinically significant adverse effects are experienced (see *Appendix B for examples*);



- 7. Xolair is not prescribed concurrently with Cinqair, Fasenra, Nucala, Dupixent, or Tezspire;
- 8. Dose does not exceed 600 mg every 2 weeks (see Appendix G for dosing based on pre-treatment IgE level and weight).

Approval duration: 6 months

- D. IgE-Mediated Food Allergy (must meet all):
 - 1. Diagnosis of IgE-mediated food allergy;
 - 2. Prescribed by or in consultation with an allergist or immunologist;
 - 3. Age ≥ 1 year;
 - 4. Confirmation of one of the following (a, b, or c):
 - a. Positive skin prick test with wheal diameter \geq 4 mm greater than control;
 - b. Food-specific serum IgE $\geq 6 \text{ kU}_A/\text{L}$;
 - c. Positive oral food challenge test;
 - 5. Member has history of significant allergic reaction(s) to the food (e.g., hives, swelling, wheezing, hypotension, gastrointestinal symptoms) that meets both of the following (a and b):
 - a. Prescriber deemed past allergic reaction to the food significant enough to require a prescription for injectable epinephrine;
 - b. Xolair is prescribed concurrently with injectable epinephrine;
 - 6. Medical justification supports necessity for Xolair despite food allergen avoidance (e.g., member lacks sufficient mental capacity to effectively avoid food allergens);
 - 7. Xolair is not prescribed concurrently with Palforzia[™], Cinqair, Fasenra, Nucala, Dupixent, or Tezspire;
 - 8. Dose does not exceed 600 mg every 2 weeks (see Appendix H for dosing based on pre-treatment IgE level and weight).

Approval duration: 6 months

E. NCCN Compendium Indications (off-label) (must meet all):

- 1. Diagnosis of one of the following (a or b):
 - a. Systemic mastocytosis;
 - b. Immune checkpoint inhibitor-related severe (G3; *see Appendix I*) pruritus and both of the following (i and ii):
 - i. Pruritus that is refractory;
 - ii. Member has an increased IgE level;
- 2. Prescribed by or in consultation with an oncologist;
- 3. For systemic mastocytosis, prescribed in one of the following settings (a, b, c, or d):
 - a. As stepwise prophylactic treatment for chronic mast cell mediator-related cardiovascular and pulmonary symptoms when the member has tried both of the following, unless clinically significant adverse effects are experienced or all are contraindicated (i and ii):
 - i. Antihistamine (i.e., H1 blocker, H2 blocker);
 - ii. Corticosteroid;
 - b. For prevention of unprovoked anaphylaxis;
 - c. For prevention of hymenoptera (e.g., bees, wasps, hornets) or food-induced anaphylaxis, and one of the following (i or ii):



- i. Member has negative specific IgE
- ii. Member has negative skin test;
- d. To improve tolerability of immunotherapy;
- 4. Xolair is not prescribed concurrently with Cinqair, Fasenra, Nucala, Dupixent, or Tezspire;
- 5. Dose is within FDA maximum limit for any FDA-approved indication or is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).* *Prescribed regimen must be FDA-approved or recommended by NCCN

Approval duration: 6 months

F. Other diagnoses/indications (must meet 1 or 2):

- 1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (a or b):
 - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial and HIM.PA.33 for health insurance marketplace; or
 - b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial and HIM.PA.103 for health insurance marketplace; or
- 2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial and HIM.PA.154 for health insurance marketplace.

II. Continued Therapy

A. Moderate to Severe Persistent Asthma (must meet all):

- 1. Member meets one of the following (a or b):
 - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
 - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
- Demonstrated adherence to asthma controller therapy (an ICS plus either a LABA or LTRA) as evidenced by proportion of days covered (PDC) of 0.8 in the last 6 months (i.e., member has received asthma controller therapy for at least 5 of the last 6 months);
- 3. Member is responding positively to therapy (examples may include but are not limited to: reduction in exacerbations or corticosteroid dose, improvement in forced expiratory volume over one second since baseline, reduction in the use of rescue therapy);
- 4. Xolair is not prescribed concurrently with Cinqair, Fasenra, Nucala, Dupixent, or Tezspire;



- 5. If request is for a dose increase, new dose does not exceed 375 mg every 2 weeks (*see Appendix E and F for dosing based on pre-treatment IgE level, weight, and age*).
- Approval duration:

HIM – 12 months

Commercial - 6 months or member's renewal period, whichever is longer

B. Chronic Spontaneous Urticaria (must meet all):

- 1. Member meets one of the following (a or b):
 - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
 - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
- 2. Member is responding positively to therapy;
- 3. Xolair is not prescribed concurrently with Cinqair, Fasenra, Nucala, Dupixent, or Tezspire;
- 4. If request is for a dose increase, new dose does not exceed 300 mg every 4 weeks.

Approval duration:

HIM – 12 months

Commercial – 6 months or member's renewal period, whichever is longer

C. Chronic Rhinosinusitis with Nasal Polyps (must meet all):

- 1. Member meets one of the following (a or b):
 - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
 - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
- 2. Demonstrated adherence to an intranasal corticosteroid, unless contraindicated or clinically significant adverse effects are experienced;
- 3. Member is responding positively to therapy (examples may include but are not limited to: reduced nasal polyp size, reduced need for systemic corticosteroids, improved sense of smell, improved quality of life);
- 4. Xolair is not prescribed concurrently with Cinqair, Fasenra, Nucala, Dupixent, or Tezspire;
- 5. If request is for a dose increase, new dose does not exceed 600 mg every 2 weeks (*see Appendix G for dosing based on pre-treatment IgE level and weight*).

Approval duration:

HIM - 12 months

Commercial – 6 months or member's renewal period, whichever is longer

D. IgE-Mediated Food Allergy (must meet all):

- 1. Member meets one of the following (a or b):
 - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;



- b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
- 2. Member is responding positively to therapy;
- 3. Xolair is prescribed concurrently with injectable epinephrine;
- 4. Xolair is not prescribed concurrently with Palforzia, Cinqair, Fasenra, Nucala, Dupixent, or Tezspire;
- 5. If request is for a dose increase, new dose does not exceed 600 mg every 2 weeks (*see Appendix H for dosing based on pre-treatment IgE level and weight*).

Approval duration:

HIM - 12 months

Commercial - 6 months or member's renewal period, whichever is longer

E. NCCN Compendium Indications (off-label) (must meet all):

- 1. Currently receiving medication via Centene benefit, or documentation supports that member is currently receiving Xolair for a covered indication and has received this medication for at least 30 days;
- 2. Member is responding positively to therapy;
- 3. If request is for a dose increase, new dose is within FDA maximum limit for any FDA-approved indication or is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).* **Prescribed regimen must be FDA-approved or recommended by NCCN.*

Approval duration: 6 months

F. Other diagnoses/indications (must meet 1 or 2):

- 1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (a or b):
 - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial and HIM.PA.33 for health insurance marketplace; or
 - b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial and HIM.PA.103 for health insurance marketplace; or
- 2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial and HIM.PA.154 for health insurance marketplace.

III. Diagnoses/Indications for which coverage is NOT authorized:

A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – CP.CPA.09 for commercial and HIM.PA.154 for health insurance marketplace, or evidence of coverage documents;



B. Acute bronchospasm or status asthmaticus.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key
AAAAI: American Academy of Allergy, Asthma, and Immunology
ADL: activity of daily living
CIU: chronic idiopathic urticaria
CRSwNP: chronic rhinosinusitis with nasal polyps
CSU: chronic spontaneous urticaria
EAACI: European Academy of Allergy and Clinical Immunology
EDF: European Dermatology Forum
EPR3: Expert Panel Report 3
FDA: Food and Drug Administration

GA2LEN: Global Allergy and Asthma European Network
GINA: Global Initiative for Asthma ICS: inhaled corticosteroids
IgE: immunoglobulin E
kU_A/L: kilounits of allergen-specific IgE per liter
LABA: long-acting beta-agonist
LTRA: leukotriene modifier
PDC: proportion of days covered
WAO: World Allergy Organization

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business and may require prior authorization.

| Drug Name | Dosing Regimen | Dose Limit/ Maximum Dose |
|------------------------------------|--------------------------------|-----------------------------|
| Asthma – ICS (medium – high | dose) | |
| Qvar [®] (beclomethasone) | > 100 mcg/day | 4 actuations BID |
| | 40 mcg, 80 mcg per actuation | |
| | 1-4 actuations BID | |
| budesonide (Pulmicort®) | > 200 mcg/day | 2 actuations BID |
| | 90 mcg, 180 mcg per actuation | |
| | 2-4 actuations BID | |
| Alvesco [®] (ciclesonide) | > 80 mcg/day | 2 actuations BID |
| | 80 mcg, 160 mcg per actuation | |
| | 1-2 actuations BID | |
| Flovent [®] (fluticasone | > 100 mcg/day | 2 actuations BID |
| propionate) | 44-250 mcg per actuation 2-4 | |
| | actuations BID | |
| Arnuity Ellipta® (fluticasone | \geq 50 mcg/day | 1 actuation QD |
| furoate) | 100 mcg, 200 mcg per | |
| | actuation | |
| | 1 actuation QD | |
| Asmanex [®] (mometasone) | \geq 100 mcg/day | 2 inhalations BID |
| | HFA: 100 mcg, 200 mcg per | |
| | actuation Twisthaler: 110 mcg, | |
| | 220 mcg per actuation | |
| | 1-2 actuations QD to BID | |



| Drug Name | Dosing Regimen | Dose Limit/ |
|--|---|--|
| | | Maximum Dose |
| Asthma - LABA | | |
| Serevent [®] (salmeterol) | 50 mcg per dose 1 inhalation BID | 1 inhalation BID |
| Asthma – Combination produc | ets (ICS + LABA) | |
| Dulera [®] (mometasone/ | 100/5 mcg, 200/5 mcg per | 4 actuations per day |
| formoterol) | actuation 2 actuations BID | |
| Breo Ellipta® | 100/25 mcg, 200/25 mcg per | 1 actuation QD |
| (fluticasone/vilanterol) | actuation 1 actuation QD | |
| Advair [®] (fluticasone/ | Diskus: 100/50 mcg, 250/50 | 1 actuation BID |
| salmeterol) | mcg, $500/50$ mcg per actuation | |
| | HFA: 45/21 mcg, 115/21 mcg, | |
| | 230/21 mcg per actuation | |
| | 1 actuation BID | |
| fluticasone/salmeterol (Airduo | 55/13 mcg, 113/14 mcg, | 1 actuation BID |
| RespiClick [®]) | 232/14 mcg per actuation 1 actuation BID | |
| Symplicant [®] (budgenida/ | 80 mcg/4.5 mcg, 160 mcg/4.5 | 2 actuations BID |
| Symbicort [®] (budesonide/ formoterol) | mcg per actuation | 2 actuations DID |
| lonnoteror) | 2 actuations BID | |
| Asthma - LTRA | | |
| montelukast (Singulair®) | 4 to 10 mg PO QD | 10 mg per day |
| zafirlukast (Accolate [®]) | 10 to 20 mg PO BID | 40 mg per day |
| zileuton ER (Zyflo [®] CR) | 1,200 mg PO BID | 2,400 mg per day |
| Zyflo [®] (zileuton) | 600 mg PO QID | 2,400 mg per day |
| Asthma – Oral corticosteroids | | |
| dexamethasone (Decadron [®]) | 0.75 to 9 mg/day PO in 2 to 4 | Varies |
| × | divided doses | |
| methylprednisolone (Medrol®) | 40 to 80 mg PO in 1 to 2 | Varies |
| | divided doses | |
| prednisolone (Millipred [®] , | 40 to 80 mg PO in 1 to 2 | Varies |
| Orapred ODT [®]) | divided doses | |
| prednisone (Deltasone [®]) | 40 to 80 mg PO in 1 to 2 | Varies |
| | divided doses | |
| CSU | | A 1 1/ XX7'11 |
| hydroxyzine (Vistaril [®]) | Adult: 25 mg PO TID to QID | Adult: Will vary |
| | Age ≥ 6 years: 50 mg-100 mg/day in | according to condition $A \approx 86$ was solved as 50 mas |
| | divided doses | Age \geq 6 years: 50 mg- 100 mg/day in divided |
| | | doses |
| | | 40505 |
| dinhenhydramine (Renadryl [®]) | Adult: 25 mg to 50 mg PO | Adult: Will vary |
| diphenhydramine (Benadryl [®]) | Adult: 25 mg to 50 mg PO TID to QID | Adult: Will vary according to condition |



| Drug Name | Dosing Regimen | Dose Limit/ |
|---|---------------------------------|--------------------------|
| | | Maximum Dose |
| | Pediatric: 12.5 mg to 25 mg | |
| | PO TID to QID or 5 | |
| | mg/kg/day or 150 mg/m²/day | |
| chlorpheniramine (Aller- | Immediate Release: 4 mg PO | Do not exceed 24 |
| Chlor [®]) | every 4 to 6 hours | mg/day |
| | Extended Release: 12 mg PO | |
| | every 12 hours | |
| cetirizine (Zyrtec [®]) | 5 to 10 mg PO QD | 10 mg/day |
| levocertirizine (Xyzal®) | 2.5 mg to 5 mg PO QD | 5 mg/day |
| loratadine (Claritin [®]) | 10 mg PO QD | 10 mg/day |
| desloratadine (Clarinex [®]) | 5 mg PO QD | Will vary according to |
| | | condition |
| fexofenadine (Allegra [®]) | 60 mg PO BID or 180 mg QD | 180 mg/day |
| Nasal polyps | | · |
| Oral corticosteroids | | |
| dexamethasone (Decadron [®]) | 0.75 to 9 mg/day PO in 2 to 4 | Varies |
| | divided doses | |
| methylprednisolone (Medrol [®]) | 4 to 48 mg PO in 1 to 2 | Varies |
| ••• | divided doses | |
| prednisolone (Millipred [®] , | 5 to 60 mg PO in 1 to 2 | Varies |
| Orapred ODT [®]) | divided doses | |
| prednisone (Deltasone [®]) | 5 to 60 mg PO in 1 to 2 | Varies |
| | divided doses | |
| Intranasal corticosteroids | | |
| beclomethasone (Beconase | 1-2 sprays IN BID | 2 sprays/nostril BID |
| AQ [®] , Qnasl [®]) | | |
| budesonide (Rhinocort® Aqua, | 128 mcg IN QD or 200 mcg | 1-2 inhalations/nostril/ |
| Rhinocort [®]) | IN BID | day |
| flunisolide | 2 sprays IN BID | 2 sprays/nostril TID |
| fluticasone propionate | 1-2 sprays IN BID | 2 sprays/nostril BID |
| (Flonase [®]) | | |
| mometasone (Nasonex [®]) | 2 sprays IN BID | 2 sprays/nostril BID |
| Omnaris [®] , Zetonna [®] | Omnaris: 2 sprays IN QD | Omnaris: 2 sprays/ |
| (ciclesonide) | Zetonna: 1 spray IN QD | nostril/day |
| | | Zetonna: 2 sprays/ |
| | | nostril/day |
| triamcinolone (Nasacort®) | 2 sprays IN QD | 2 sprays/ nostril/day |
| Xhance [™] (fluticasone | 1 to 2 sprays (93 mcg/spray) to | 744 mcg/day |
| propionate) | nostril IN BID | |
| Systemic mastocytosis, Immun | otherapy-related pruritus | |
| antihistamines, H1 blockers: | Varies | Varies |
| examples – | | |



| Drug Name | Dosing Regimen | Dose Limit/ Maximum Dose |
|--------------------------------|----------------|-----------------------------|
| diphenhydramine, | | |
| chlorpheniramine, hydroxyzine, | | |
| cetirizine, loratadine, | | |
| fexofenadine | | |
| antihistamines, H2 blockers: | Varies | Varies |
| examples – | | |
| cimetidine, famotidine | | |
| corticosteroids: examples - | Varies | Varies |
| betamethasone, dexamethasone, | | |
| methylprednisolone, | | |
| prednisolone, prednisone | | |

Therapeutic alternatives are listed as Brand name[®] (generic) when the drug is available by brand name only and generic (Brand name[®]) when the drug is available by both brand and generic.

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): hypersensitivity
- Boxed warning(s): anaphylaxis

Appendix D: General Information

- Allergic asthma:
 - The definition of moderate to severe allergy varied among the clinical trials. The definition most often used was a patient who required oral systemic steroid bursts or unscheduled physician office visits for "uncontrolled" asthma exacerbations despite maintenance inhaled steroid use. Patients in the clinical trials most often were required to have an FEV1 between 40% and 80% of predicted. No patients were enrolled with an FEV1 greater than 80% of predicted.
 - Xolair has been shown to be marginally effective in decreasing the incidence of asthma exacerbations in patients who have met all the criteria described above.
 - Xolair provides little therapeutic benefit over existing therapies. Use in patients on inhaled corticosteroids or chronic oral steroids plus or minus a second controller agent decreased asthma exacerbation by 0.5 to 1 per year. Use of rescue beta- agonists declined by 1 inhalation per day. Small changes in pulmonary function tests were also seen. An analysis of unpublished data indicated that hospital admissions declined by 3 per hundred patient years, emergency department (ED) visits by 2 per hundred patient years, and unscheduled physician office visits by 14 per one hundred patient years.
 - The 2007 National Heart, Lung and Blood Institute's Expert Panel Report 3 (EPR3) Guidelines for the Diagnosis and Management of Asthma recommend Xolair may be considered as adjunct therapy for patients 12 years and older with allergies and Step 5 or 6 (severe) asthma whose symptoms have not been controlled by ICS and LABA.
 - The Global Initiative for Asthma (GINA) guidelines recommend Xolair be considered as adjunct therapy for patients 6 years of age and older with exacerbations or poor symptom control despite taking at least high dose ICS/LABA



and who have allergic biomarkers or need maintenance oral corticosteroids.

- The four perennial aeroallergens most commonly tested for in the clinical trials were dog dander, cat dander, cockroach, and house dust mite.
- Serious and life-threatening allergic reactions (anaphylaxis) in patients after treatment with Xolair have been reported. Usually, these reactions occur within two hours of receiving a Xolair subcutaneous injection. However, these new reports include patients who had delayed anaphylaxis—with onset two to 24 hours or even longer- after receiving Xolair treatment. Anaphylaxis may occur after any dose of Xolair (including the first dose), even if the patient had no allergic reaction to the first dose.
- Patients could potentially meet asthma criteria for both Xolair and Nucala, though there is insufficient data to support the combination use of multiple asthma biologics. The combination has not been studied. Approximately 30% of patients in the Nucala MENSA study also were candidates for therapy with Xolair.
- PDC is a measure of adherence. PDC is calculated as the sum of days covered in a time frame divided by the number of days in the time frame. To achieve a PDC of 0.8, a member must have received their asthma controller therapy for 144 days out of the last 180 days, or approximately 5 months of the last 6 months.
- CSU:
 - CSU is classified as spontaneous onset of wheals, angioedema, or both, for more than 6 weeks due to an unknown cause.
 - Clinical studies have shown that Xolair 150 mg and 300 mg significantly improved the signs and symptoms of chronic idiopathic urticaria compared to placebo in patients who had remained symptomatic despite the use of approved dose of H₁- antihistamine.
 - The Joint Task Force on Practice Parameters representing various American allergy organizations include Xolair in combination with H1-antihistamines as a fourth line treatment option following a stepwise approach starting with a second generation antihistamine. This is followed by one or more of the following: a dose increase of the second generation antihistamine, or the addition of another second generation antihistamine, H2-antagonist, LTRA, or first generation antihistamine. Treatment with hydroxyzine or doxepin can be considered in patients whose symptoms remain poorly controlled.
 - The EAACI/GA2LEN/EDF/AAAAI/WAO Guideline for the Management of Urticaria include Xolair in combination with H₁-antihistamines as a third line treatment option in patients who have failed to respond to higher doses of H₁-antihistamines.
 - Xolair is the first medicine in its class approved for CSU since non-sedating antihistamines.
 - The use of over-the-counter H₁ antihistamines may not be a benefit to the treatment of CIU. Credit will be given for their use, but will not be covered under plan.
 - Anaphylaxis has occurred as early as after the first dose of Xolair, but also occurred beyond 1 year after beginning regularly administered treatment.



• Idiopathic anaphylaxis: A randomized, double-blind, placebo-controlled study in 19 patients with frequent episodes (≥ 6/year) of idiopathic anaphylaxis found Xolair to have no significant difference compared to placebo in the number of anaphylactic episodes at 6 months (Carter MC et al).

| Pre- | Dosing | Body Weight | | | | | | | |
|---------------------------------|-----------|-------------|------------|-------------------|---------------------|--|--|--|--|
| treatment serum IgE IU/mL | Frequency | 30-60 kg | > 60-70 kg | > 70-90 kg | > 90-15 kg | | | | |
| ≥ 30-100 | Q 4 weeks | 150 mg | 150 mg | 150 mg | 300 mg | | | | |
| > 100-200 | | 300 mg | 300 mg | 300 mg | 225 mg | | | | |
| > 200-300 | | 300 mg | 225 mg | 225 mg | 300 mg | | | | |
| > 300-400 | Q 2 weeks | 225 mg | 225 mg | 300 mg | | | | | |
| > 400-500 | | 300 mg | 300 mg | 375 mg | | | | | |
| > 500-600 | | 300 mg | 375 mg | Insufficient Data | to Recommend a Dose | | | | |
| > 600-700 |] | 375 mg | | _ | | | | | |

Appendix E: $Age \ge 12$ Years: Asthma Dosing Based on Pre-treatment IgE and Body $Weight^{\dagger}$

†The manufacturer recommends dose adjustments for significant body weight changes during treatment.

Appendix F: Age 6 to < 12 Years: Asthma Dosing Based on Pre-treatment IgE and Body $Weight^{\dagger}$

| Pre- | Dosing | | | | | Body | Weight | | | | |
|---------------------------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|---------------------|
| treatment serum IgE IU/mL | Freq- uency | 20- 25 kg | > 25- 30 kg | > 30- 40 kg | > 40- 50 kg | > 50- 60 kg | > 60- 70 kg | > 70- 80 kg | > 80- 90 kg | > 90- 125 kg | > 125- 150 kg |
| ≥ 30-100 | Q 4 | 75 | 75 | 75 | 150 | 150 | 150 | 150 | 150 | 300 | 300 |
| > 100-200 | weeks | 150 | 150 | 150 | 300 | 300 | 300 | 300 | 300 | 225 | 300 |
| > 200-300 | | 150 | 150 | 225 | 300 | 300 | 225 | 225 | 225 | 300 | 375 |
| > 300-400 | | 225 | 225 | 300 | 225 | 225 | 225 | 300 | 300 | | |
| > 400-500 | | 225 | 300 | 225 | 225 | 300 | 300 | 375 | 375 | | |
| > 500-600 | | 300 | 300 | 225 | 300 | 300 | 375 | | | - | |
| > 600-700 | | 300 | 225 | 225 | 300 | 375 | | - | | | |
| > 700-800 | Q 2 | 225 | 225 | 300 | 375 | | _ | | | | |
| > 800-900 | weeks | 225 | 225 | 300 | 375 | | | | | | |
| > 900-1,000 | | 225 | 300 | 375 | | _ | | | | | |
| > 1,000- 1,100 | | 225 | 300 | 375 | | Insuffic | ient Data | to Recomr | nend a Do | se | |
| >1,100 | | 300 | 300 | | | | | | | | |
| 1,200 | | 200 | 200 | | | | | | | | |
| > 1,200- | | 300 | 375 | | | | | | | | |
| 1,300 | | | | | | | | | | | |

[†]*The manufacturer recommends dose adjustments for significant body weight changes during treatment.*

| Appendix G: $Age \ge 18$ Years: | CRSwNP Dosing Based on Pre-treatment IgE and Bo | ody |
|---------------------------------|---|-----|
| $W eight^{\dagger}$ | | |

| Pre- treatment | Dosing | Body Weight | | | | | | | |
|--------------------|-----------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|
| serum IgE IU/mL | Frequency | > 30- 40 kg | > 40- 50 kg | > 50- 60 kg | > 60- 70 kg | > 70- 80 kg | > 80- 90 kg | > 90- 125 kg | > 125- 150 kg |
| ≥ 30-100 | Q 4 | 75 | 150 | 150 | 150 | 150 | 150 | 300 | 300 |
| > 100-200 | weeks | 150 | 300 | 300 | 300 | 300 | 300 | 450 | 600 |
| > 200-300 | | 225 | 300 | 300 | 450 | 450 | 450 | 600 | 375 |
| > 300-400 | | 300 | 450 | 450 | 450 | 600 | 600 | 450 | 525 |
| > 400-500 | | 450 | 450 | 600 | 600 | 375 | 375 | 525 | 600 |



| Pre- treatment | Dosing | Body Weight | | | | | | | |
|----------------|-----------|-------------|-------|-------|-------|--------------|-------------|-----------|--------|
| serum IgE | Frequency | > 30- | > 40- | > 50- | > 60- | > 70- | > 80- | > 90- | > 125- |
| IU/mL | | 40 kg | 50 kg | 60 kg | 70 kg | 80 kg | 90 kg | 125 kg | 150 kg |
| > 500-600 | | 450 | 600 | 600 | 375 | 450 | 450 | 600 | |
| > 600-700 | | 450 | 600 | 375 | 450 | 450 | 525 | | |
| > 700-800 | Q 2 | 300 | 375 | 450 | 450 | 525 | 600 |] | |
| > 800-900 | weeks | 300 | 375 | 450 | 525 | 600 | | | |
| > 900-1,000 | | 375 | 450 | 525 | 600 | | - | | |
| > 1,000-1,100 | | 375 | 450 | 600 | | _ | | | |
| > 1,100-1,200 | | 450 | 525 | 600 | Inst | ufficient Da | ata to Reco | mmend a I | Dose |
| > 1,200-1,300 | | 450 | 525 | | _ | | | | |
| > 1,300- 1,500 | | 525 | 600 | | | | | | |

[†]The manufacturer recommends dose adjustments for significant body weight changes during treatment.

Appendix H: $Age \ge 1$ Year: IgE-Mediated Food Allergy Dosing Based on Pre-treatment IgE and Body $Weight^{\dagger}$

| Pre-treatment | Dosing | Body Weight (continued on next table) | | | | | | |
|--------------------|-----------|---------------------------------------|-------|-------|-------|-------|-------|-------|
| serum IgE IU/mL | Frequency | ≥ 10- | > 12- | > 15- | > 20- | > 25- | > 30- | > 40- |
| | | 12 kg | 15 kg | 20 kg | 25 kg | 30 kg | 40 kg | 50 kg |
| \geq 30-100 | Q 4 | 75 | 75 | 75 | 75 | 75 | 75 | 150 |
| > 100-200 | weeks | 75 | 75 | 75 | 150 | 150 | 150 | 300 |
| > 200-300 | | 75 | 75 | 150 | 150 | 150 | 225 | 300 |
| > 300-400 | | 150 | 150 | 150 | 225 | 225 | 300 | 450 |
| > 400-500 | | 150 | 150 | 225 | 225 | 300 | 450 | 450 |
| > 500-600 | | 150 | 150 | 225 | 300 | 300 | 450 | 600 |
| > 600-700 | | 150 | 150 | 225 | 300 | 225 | 450 | 600 |
| > 700-800 | Q 2 | 150 | 150 | 150 | 225 | 225 | 300 | 375 |
| > 800-900 | weeks | 150 | 150 | 150 | 225 | 225 | 300 | 375 |
| > 900-1,000 | | 150 | 150 | 225 | 225 | 300 | 375 | 450 |
| > 1,000-1,100 | | 150 | 150 | 225 | 225 | 300 | 375 | 450 |
| > 1,100-1,200 | | 150 | 150 | 225 | 300 | 300 | 450 | 525 |
| > 1,200-1,300 | | 150 | 225 | 225 | 300 | 375 | 450 | 525 |
| > 1,300-1,500 | | 150 | 225 | 300 | 300 | 375 | 525 | 600 |
| > 1,500-1,850 | 1 | * | 225 | 300 | 375 | 450 | 600 | * |

[†]*The manufacturer recommends dose adjustments for significant body weight changes during treatment.* * *Insufficient data to recommend a dose*

| Pre-treatment | Dosing | | Body Wei | ght (continue | d from previ | ous table) | |
|---------------|-----------|----------|----------|-----------------|--------------|------------|--------|
| serum IgE | Frequency | > 50- 60 | > 60- 70 | > 70-80 | > 80- | > 90- | > 125- |
| IU/mL | | kg | kg | kg | 90 kg | 125 kg | 150 kg |
| ≥ 30-100 | Q 4 | 150 | 150 | 150 | 150 | 300 | 300 |
| > 100-200 | weeks | 300 | 300 | 300 | 300 | 450 | 600 |
| > 200-300 | | 300 | 450 | 450 | 450 | 600 | 375 |
| > 300-400 | | 450 | 450 | 600 | 600 | 450 | 525 |
| > 400-500 | | 600 | 600 | 375 | 375 | 525 | 600 |
| > 500-600 | | 600 | 375 | 450 | 450 | 600 | |
| > 600-700 | | 375 | 450 | 450 | 525 | | |
| > 700-800 | Q 2 | 450 | 450 | 525 | 600 | | |
| > 800-900 | weeks | 450 | 525 | 600 | | | |
| > 900-1,000 | 1 | 525 | 600 | | _ | | |
| > 1,000-1,100 | | 600 | | _ | | | |
| > 1,100-1,200 | 7 | 600 | I | nsufficient Dat | a to Recomm | end a Dose | |
| > 1,200-1,300 |] | | _ | | | | |
| > 1,300-1,500 | 7 | | | | | | |
| > 1,500-1,850 |] | | | | | | |

[†]*The manufacturer recommends dose adjustments for significant body weight changes during treatment.*



Appendix I: Immunotherapy-related Pruritus

- Immunotherapy refers to immune checkpoint inhibitors. Immune checkpoint inhibitors comprise a class of agents that target immune cell checkpoints, such as programmed cell death-1 (PD-1; e.g., Opdivo[®], Keytruda[®]) and PD-1 ligand (PD-L1; e.g., Tecentriq[®], Bavencio[®], Imfinzi[®]), as well as cytotoxic T-lymphocyte–associated antigen 4 (e.g., Yervoy[®], Imjudo[®]).
- NCCN grading of pruritus
 - G1: Mild or localized
 - G2: Moderate. Intense or widespread; intermittent; skin changes from scratching (e.g., edema, papulation, excoriations, lichenification, oozing/crusts); limiting instrumental ADLs
 - G3: Severe. Intense or widespread; constant; limiting self-care ADLs or sleep

V. Dosage and Administration

| Indication | Dosing Regimen | Maximum Dose |
|--------------------------------------|--|----------------|
| Asthma* | 75 to 375 mg SC every 2 or 4 weeks based on serum total IgE level (IU/mL) measured before the start of treatment, and body weight (kg). Adjust doses for significant changes in body weight during treatment | 375 mg/2 weeks |
| | Xolair is not approved for use in patients weighing more than 150 kg (<i>see Appendix E and</i> <i>F</i>) | |
| | Do not administer more than 150 mg (contents of one vial) per injection site. Divide doses of more than 150 mg amongst two or more injection sites | |
| CSU | 150 mg or 300 mg SC every 4 weeks | 300 mg/4 weeks |
| CRSwNP* | 75 to 600 mg SC every 2 or 4 weeks based on serum total IgE level (IU/mL) measured before the start of treatment, and body weight (kg). Adjust doses for significant changes in body weight during treatment | 600 mg/2 weeks |
| IgE- mediated food allergy* | 75 mg to 600 mg SC every 2 or 4 weeks based on serum total IgE level (IU/mL) measured before the start of treatment and body weight (kg). Adjust doses for significant changes in body weight during treatment | 600 mg/2 weeks |

*For patients with a combination of either asthma, CRSwNP, and/or IgE-mediated food allergy, dosing determination should be based on the primary diagnosis for which Xolair is being prescribed.

VI. Product Availability

- Single-dose vial: 150 mg
- Single-dose prefilled syringes: 75 mg/0.5 mL, 150 mg/mL, and 300 mg/2 mL



• Single-dose prefilled autoinjectors: 75 mg/0.5 mL, 150 mg/mL, and 300 mg/2 mL

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Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-todate sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

| HCPCS Codes | Description |
|----------------|-----------------------------|
| J2357 | Injection, omalizumab, 5 mg |

| Reviews, Revisions, and Approvals | Date | P&T Approval Date |
|---|----------|-------------------------|
| Policy created per November SDC (adapted from CP.PHAR.01). | 11.18.22 | 02.23 |
| Template changes applied to other diagnoses/indications and | | |
| continued therapy section. | | |
| Per February SDC, for nasal polyps modified requirement from | 04.03.23 | 05.23 |
| three intranasal steroids to require only two; RT4: revised FDA | | |
| labeled indication from "nasal polyps" to "CRSwNP" per updated | | |
| prescribing information. | | |
| 1Q 2024 annual review: added off-label indications and criteria for | 11.06.23 | 02.24 |
| systemic mastocytosis and immunotherapy-related pruritus per | | |



| Reviews, Revisions, and Approvals | Date | P&T Approval Date |
|---|----------|-------------------------|
| NCCN; updated formulations to include strengths of prefilled syringe and autoinjectors; references reviewed and updated. | | |
| RT4: added new FDA-labeled indication of IgE-mediated food allergy; corrected continued therapy section for NCCN Compendium indications to allow for continued therapy for an approval duration of 6 months; moved immunotherapy-related pruritus appendix information to Appendix I. | 04.09.24 | 05.24 |

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. "Health Plan" means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan's affiliates, as applicable.

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Note:

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