



Medicare Advantage Medical Utilization Review Policy

Policy:	Immunologicals – Xolair Utilization Management Medical Policy		
	 Xolair[®] (omalizumab subcutaneous injection – Genentech/Novartis) 		
Date:		03/22/2023	
Applicable Lines of Business:		Medicare Advantage - Medical	
Applicable States:		NGS, J6: Wisconsin, Minnesota, Illinois NGS, JK: New York, Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont	

OVERVIEW

Xolair, an anti-immunoglobulin E (IgE) monoclonal antibody, is indicated for the following uses:¹

- Asthma, in patients ≥ 6 years of age with moderate to severe persistent disease who have a positive skin test or *in vitro* reactivity to a perennial aeroallergen and whose symptoms are inadequately controlled with inhaled corticosteroids (ICSs). Xolair has been shown to decrease the incidence of asthma exacerbations in these patients. Limitations of Use: Xolair is not indicated for the relief of acute bronchospasm or status asthmaticus. It is also not indicated for the treatment of other allergic conditions.
- Chronic idiopathic urticaria, in patients ≥ 12 years of age who remain symptomatic despite H1 antihistamine treatment. Limitation of Use: Xolair is not indicated for the treatment of other forms of urticaria.
- Nasal polyps, as add-on maintenance treatment in patients ≥ 18 years of age with an inadequate response to nasal corticosteroids.

Dosing of Xolair for the treatment of asthma or nasal polyps is based on body weight and the serum total IgE level measured before the start of treatment.¹ Dosing for these indications is only provided for patients with a pretreatment serum IgE level \geq 30 IU/mL. Dosing of Xolair in patients with chronic idiopathic urticaria is not dependent on serum IgE level or body weight.

Clinical Efficacy

Timing of efficacy assessments varied by indication across the numerous pivotal studies in which Xolair demonstrated benefit. In the majority of the asthma trials, efficacy with Xolair was assessed as early as 16 weeks.¹⁻ ¹¹ In chronic idiopathic urticaria, one of the studies included a 12-week double-blind treatment period, while the other was longer with 24 weeks of double-blind treatment.^{12,13} Across both studies evaluating Xolair in nasal polyps, efficacy was evaluated at Week 24.¹⁴ Patients continued treatment with intranasal corticosteroids throughout the study.

Guidelines

Asthma Guidelines

The Global Initiative for Asthma Global Strategy for Asthma Management and Prevention (2022) proposes a stepwise approach to asthma treatment.¹⁵ Xolair is listed as an option for add-on therapy in patients \geq 6 years of age with difficult-to-treat, severe eosinophilic asthma (i.e., asthma that cannot be managed by therapy with an inhaled corticosteroid [ICS]/long-acting beta₂-agonist [LABA] combination with or without an additional controller). Higher blood eosinophil levels, elevated fractional exhaled nitric oxide, allergy-driven symptoms, and childhoodonset asthma may predict a good asthma response to Xolair.

According to the European Respiratory Society/American Thoracic Society guidelines (2014; updated in 2020), severe asthma is defined as asthma which requires treatment with a high-dose ICS in addition to a second controller medication (and/or systemic corticosteroids) to prevent it from becoming uncontrolled, or asthma which remains uncontrolled despite this therapy.^{16,17} Uncontrolled asthma is defined as asthma that worsens upon tapering of high-dose ICS or systemic corticosteroids or asthma that meets one of the following four criteria:

1) Poor symptom control: Asthma Control Questionnaire consistently ≥ 1.5 or Asthma Control Test < 20;

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- 2) Frequent severe exacerbations: two or more bursts of systemic corticosteroids in the previous year;
- 3) Serious exacerbations: at least one hospitalization, intensive care unit stay, or mechanical ventilation in the previous year;
- 4) Airflow limitation: $FEV_1 < 80\%$ predicted after appropriate bronchodilator withholding.

Chronic Urticaria Guidelines

A Practice Parameter on the Diagnosis and Management of Acute and Chronic Urticaria (2014) from the Joint Task Force on Practice Parameters (JTFPP) and guideline from the European Academy of Allergy and Clinical Immunology/Global Allergy and Asthma European Network/European Dermatology Forum/World Allergy Organization (2018) define chronic urticaria as urticaria that has been continuously or intermittently present for at least 6 weeks.^{18,19} Continuous therapy with antihistamines (second generation H1-antagonists) is generally recommended as first-line pharmacologic treatment for urticaria following trigger avoidance. If symptoms persist following 2 to 4 weeks of initial therapy, the dose of the second generation H1-antagonist should be increased to up to 4-fold. For patients with refractory chronic urticaria, the addition of Xolair may be considered.

Nasal Polyp Guidelines

A 2014 Practice Parameter on the Diagnosis and Management of Rhinosinusitis (2014) and a Practice Parameter for the Management of Rhinitis from the JTFPP (2020), and a 2015 Clinical Practice Guideline update on Adult Sinusitis from the American Academy of Otolaryngology (AAO), make similar recommendations regarding the diagnosis and management of chronic rhinosinusitis with nasal polyposis (CRSwNP).²⁰⁻²⁴ The presence of two or more signs and symptoms of chronic rhinosinusitis (e.g., rhinorrhea, postnasal drainage, anosmia, nasal congestion, facial pain, headache, fever, cough, and purulent discharge) that persist for an extended period of time makes the diagnosis CRS likely. However, this requires confirmation of sinonasal inflammation, which can either be done via direct visualization or computed tomography scan. Nasal corticosteroids are recommended for the management of CRSwNP, as they decrease nasal polyp size, prevent regrowth of nasal polyps following surgical removal, and improve nasal symptoms. Short courses of oral corticosteroids are also recommended. Endoscopic surgical intervention may be considered as an adjunct to medical therapy in patients with chronic rhinosinusitis that is not responsive or is poorly responsive to medical therapy. The JTFPP parameter lists Xolair as a therapy that may be considered for the treatment of nasal polyps based on the limited data available at the time of publication. The AAO guidelines do not address Xolair.

The European Forum for Research and Education in Allergy expert board on uncontrolled severe CRSwNP and biologics (2021) recommends that these agents, including Xolair, only be used for severe uncontrolled CRSwNP when Type 2 inflammation is present.⁴⁹ Severe CRSwNP is defined as bilateral CRSwNP with a nasal polyp score ≥ 4 and persistent symptoms (e.g., loss of smell/taste, nasal obstruction, secretion or postnasal drip, facial pain or pressure) with the need for add-on treatment to supplement intranasal corticosteroids. Severe CRSwNP is considered to be uncontrolled if the patient has received continuous treatment with an intranasal corticosteroid and has needed at least one course of systemic corticosteroids in the previous 2 years (or has a medical contraindication or intolerance) and/or has a previous sinonasal surgery.

POLICY STATEMENT

Prior authorization is recommended for medical benefit coverage of Xolair. Approval is recommended for those who meet the **Criteria** and **Dosing** the listed indication(s). Extended approvals are allowed if the patient continues to meet the Criteria and Dosing. All approvals are provided for the durations noted below. In cases where the approval is authorized in months, 1 month is equal to 30 days.

This policy incorporates Medicare coverage guidance as set forth in National Coverage Determinations (NCDs) and Local Coverage Determinations (LCDs), as well as in companion policy articles and other guidance applicable to the relevant service areas. These documents are cited in the References section of this policy. In some cases,





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this guidance includes specific lists of HCPCS and ICD-10 codes to help inform the coverage determination process. The Articles that include specific lists for billing and coding purposes will be included in the Reference section of this policy. However, to the extent that this policy cites such lists of HCPCS and ICD-10 codes, they should be used for reference purposes only. The presence of a specific HCPCS or ICD-10 code in a chart or companion article to an LCD is not by itself sufficient to approve coverage. Similarly, the absence of such a code does <u>not</u> necessarily mean that the applicable condition or diagnosis is excluded from coverage.

RECOMMENDED AUTHORIZATION CRITERIA

Coverage of Xolair is recommended in those who meet one of the following criteria:

FDA-Approved Indications

1. Asthma.

Criteria. Approve Xolair for the duration noted if the patient meets one of the following conditions (A or B):A) Initial Therapy. Approve for 4 months if the patient meets the following criteria (i, ii, iii, and iv):

- i. The patient is ≥ 6 years of age; AND
- **ii.** The patient has a baseline positive skin test <u>or</u> *in vitro* test (i.e., a blood test) for allergen-specific immunoglobulin E (IgE) for one or more <u>perennial</u> aeroallergens <u>and/or</u> for one or more <u>seasonal</u> aeroallergens; AND

<u>Note</u>: "Baseline" is defined as prior to receiving any Xolair or another monoclonal antibody therapy that may interfere with allergen testing (e.g., Dupixent and Tezspire). Examples of perennial aeroallergens are house dust mite, animal dander, cockroach, feathers, and mold spores. Examples of seasonal aeroallergens are grass, pollen, and weeds.

- iii. Patient has received at least 3 consecutive months of therapy with an inhaled corticosteroid; AND <u>Note</u>: Use of a combination inhaler containing an inhaled corticosteroid would fulfill this requirement. Examples of inhaled corticosteroids include Aerospan, Alvesco, ArmonAir RespiClick, Arnuity Ellipta, Asmanex Twisthaler/HFA, Flovent Diskus/HFA, Pulmicort Flexhaler, Qvar/Qvar RediHaler, and budesonide suspension for inhalation (Pulmicort Respules, generics). Examples of combination inhalers containing an inhaled corticosteroid include Advair Diskus (generic Wixela Inhub; authorized generics), Advair HFA, AirDuo RespiClick (authorized generics), Breo Ellipta, Dulera, and Symbicort.
- iv. The patient has asthma that is uncontrolled or was uncontrolled at baseline as defined by ONE of the following (a, b, c, d, e, f, g, h, <u>or</u> i):

<u>Note</u>: "Baseline" is defined as prior to receiving Xolair or another monoclonal antibody therapy for asthma. Examples of monoclonal antibody therapies for asthma include Cinqair, Dupixent, Fasenra, Nucala, Tezspire, and Xolair.

- **a.** Daily symptoms or symptoms throughout the day;⁵⁰ OR
- **b.** Daily use of inhaled short-acting beta₂-agonist or use of inhaled short-acting beta 2-agonist several times per day; ⁵⁰ OR
- c. Some limitation with normal activity or extremely limited normal activity; ⁵⁰ OR
- **d.** The patient experienced two or more asthma exacerbations requiring treatment with systemic corticosteroids in the previous year; OR
- e. The patient experienced one or more asthma exacerbation requiring a hospitalization, an emergency department (ED) visit, or an urgent care visit in the previous year; OR
- **f.** Nighttime symptoms greater than 1 time a week but not nightly or nighttime symptoms often 7x/week;⁵⁰ OR
- g. Patient has a forced expiratory volume in 1 second (FEV₁) < 80% predicted; OR





- **h.** Patient has an FEV₁/forced vital capacity (FVC) < 0.80 or the patient's FEV₁/forced vital capacity (FVC) is reduced by $\ge 5\%$;⁵⁰ OR
- i. The patient's asthma worsens upon tapering of oral corticosteroid therapy; OR
- B) <u>Patient is Currently Receiving Xolair</u>. Approve Xolair for 1 year if the patient meets the following criteria (i, ii, <u>and</u> iii):
 - i. The patient has already received at least 4 months of therapy with Xolair; AND <u>Note</u>: A patient who has received < 4 months of therapy or who is restarting therapy with Xolair should be considered under criterion 1A (Asthma, Initial Therapy).
 - **ii.** Patient continues to receive therapy with one inhaled corticosteroid or one inhaled corticosteroidcontaining combination inhaler; AND
 - iii. The patient has responded to therapy, as determined by the prescriber; AND <u>Note</u>: Examples of a response to Xolair therapy are decreased asthma exacerbations; decreased asthma symptoms; decreased hospitalizations, emergency department/urgent care, or medical clinic visits due to asthma; decreased reliever/rescue medication use; and improved lung function parameters.

Dosing. Approve up to a maximum dose of 375 mg administered subcutaneously (SC) not more frequently than once every 2 weeks.

*See Exhibit 1 for normal ranges of FEV1/FVC by age range

2. Chronic Idiopathic Urticaria (Chronic Spontaneous Urticaria).

Criteria. Approve Xolair for the duration noted if the patient meets one of the following conditions (A <u>or</u> B): A) <u>Initial Therapy</u>. Approve for 4 months if the patient meets the following criteria (i <u>and</u> ii):

- i. The patient is ≥ 12 years of age; AND
- Patient has/had urticaria for > 6 weeks (prior to treatment with Xolair), with symptoms present > 3 days per week despite daily non-sedating H₁ antihistamine therapy with doses that have been titrated up to a maximum of four times the standard FDA-approved dose.
 <u>Note</u>: Examples of non-sedating H₁ antihistamine therapy are cetirizine, desloratadine, fexofenadine, levocetirizine, and loratadine.
- **B)** <u>Patient is Currently Receiving Xolair</u>. Approve Xolair for 1 year if the patient meets the following criteria (i <u>and</u> ii):
 - The patient has already received at least 4 months of therapy with Xolair; AND <u>Note</u>: A patient who has received < 4 months of therapy or who is restarting therapy with Xolair should be considered under criterion 2A (Chronic Idiopathic Urticaria, Initial Therapy).
 - **ii.** The patient has responded to therapy, as determined by the prescriber; AND Note: Examples of a response to Xolair therapy are decreased severity of itching, decreased number and/or size of hives.

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

- A) 150 mg administered subcutaneously (SC) once every 4 weeks; OR
- **B)** 300 mg administered subcutaneously (SC) once every 4 weeks.
- 3. Nasal Polyps.

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





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- A) Initial Therapy. Approve for 6 months if the patient meets the following criteria (i, ii, iii and iv):
 - i. Patient is ≥ 18 years of age; AND
 - **ii.** Patient has chronic rhinosinusitis with nasal polyposis as evidenced by direct examination, endoscopy, or sinus computed tomography (CT) scan; AND
 - iii. Patient will receive therapy with an intranasal corticosteroid concomitantly with Xolair; AND
 - iv. Patient meets ONE of the following (a, b <u>or</u> c):
 - **a.** Patient has had an inadequate response to an intranasal corticosteroid;⁵¹ OR
 - **b.** Patient has received at least one course of treatment with a systemic corticosteroid for 5 days or more within the previous 2 years; OR
 - c. Patient has a contraindication to systemic corticosteroid therapy; OR
 - **d.** Patient has had prior surgery for nasal polyps.
- **B**) <u>Patient is currently receiving Xolair</u>. Approve for 1 year if the patient meets the following criteria (i, ii <u>and iii)</u>:
 - Patient has already received at least 6 months of therapy with Xolair; AND <u>Note</u>: A patient who has received < 6 months of therapy or who is restarting therapy with Xolair should be considered under criterion 3A [Nasal Polyps, Initial Therapy]).
 - ii. Patient continues to receive therapy with an intranasal corticosteroid; AND
 - iii. Patient has responded to Xolair therapy as determined by the prescriber.
 - <u>Note</u>: Examples of a response to Xolair therapy are reduced nasal polyp size, improved nasal congestion, reduced sinus opacification, decreased sino-nasal symptoms, and/or improved sense of smell.

Dosing. Approve up to a maximum dose of 600 mg administered subcutaneously (SC) not more frequently than once every 2 weeks.

CONDITIONS NOT RECOMMENDED FOR APPROVAL

Coverage of Xolair is not recommended in the following situations:

1. Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria. Criteria will be updated as new published data are available.

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Exhibit 1

Normal ranges by age for FEV₁/FVC are as follows (National Heart, Lung, and Blood Institute [NHLBI]):

- 8-19 years of age 85%;
- 20-39 years of age 80%;
- 40-59 years of age -75%;
- 60-80 years of age -70%

HISTORY

Type of Revision	Summary of Changes	Date
Policy created	New Medicare Advantage Medical Policy	07/11/2018
Policy revision	Reviewed and revised original policy created 07/11/2018 in accordance with	02/20/2019
	Local Coverage Article A52448.	
Policy revision	Completion of 2019 monthly monitoring process in accordance with Local	12/11/2019
	Coverage Determination L33394, Local Coverage Article A52448.	
Policy revision	Non-clinical update to policy to add the statement "This policy incorporates	1/30/2020
	Medicare coverage guidance as set forth in National Coverage	
	Determinations (NCDs) and Local Coverage Determinations (LCDs), as	
	well as in companion policy articles and other guidance applicable to the	
	relevant service areas. These documents are cited in the References section	
	of this policy. In some cases, this guidance includes specific lists of HCPCS	
	and ICD-10 codes to help inform the coverage determination process. The	
	Articles that include specific lists for billing and coding purposes will be	
	included in the Reference section of this policy. However, to the extent that	
	this policy cites such lists of HCPCS and ICD-10 codes, they should be used	
	for reference purposes only. The presence of a specific HCPCS or ICD-10	





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	code in a chart or companion article to an LCD is not by itself sufficient to approve coverage. Similarly, the absence of such a code does <u>not</u> necessarily mean that the applicable condition or diagnosis is excluded from coverage."	
Policy revision	Reviewed and revised original policy created 07/11/2018 in accordance with Local Coverage Determination L33394, Local Coverage Article A52448.	02/12/2020
Policy revision	 Asthma – changed wording for the indication, simplified to asthma. Also changed "moderate to severe requirement" to "uncontrolled or was uncontrolled prior to receiving any Xolair or anti-IL-4/13 therapy (Dupixent) therapy" and added additional options to meet that criteria, Added criteria requiring patient to continue therapy with an ICS or ICS-containing product for continuation of coverage. All indications – removed requirement that Xolair be administered by a physician or incident to a physician's service in office/clinic setting. Removed Allergic rhinitis as a covered condition Removed self-administration of Xolair and acute bronchospasm or status asthmaticus from conditions not recommended for approval 	3/26/2020
Policy revision	New indication - Nasal Polyps: criteria for this indication – for initial therapy includes an age requirement, current intranasal corticosteroid therapy, previous systemic therapy (or contraindication) or surgery for nasal polyps or previous inadequate response to an intranasal corticosteroid. For continuation therapy, requires patient has already received at least 6 months of therapy with Xolair, patient continues to receive therapy with an intranasal corticosteroid, and that pt has had a response to therapy.	01/06/2021
Policy revision	Nasal Polyps: Added criteria requiring patient have chronic rhinosinusitis with nasal polyposis as evidenced by direct examination, endoscopy, or sinus computed tomography (CT) scan. Changed criteria requiring patient be currently receiving a nasal corticosteroid to Patient will receive therapy with an intranasal corticosteroid concomitantly with Xolair. Clarified the systemic corticosteroid criteria to require that the patient has received at least one course of systemic corticosteroids for at least 5 days in the previous 2 years.	07/20/2021
Policy revision	Asthma: Notes were also updated to include Xolair, Cinqair, Fasenra, Nucala, and Tezspire as examples of monoclonal antibody therapies for asthma. Criteria requiring the patient to have experienced one or more asthma exacerbation(s) requiring a hospitalization or an emergency department visit in the previous year, were updated to include an urgent care visit as well.	08/03/2022
Policy review	No criteria changes	03/22/2023





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