

Protocol for Biologics Used in Moderate to Severe Asthma

Approved October 2022

Cinqair (reslizumab) ≥ 18 years

Dupixent (dupilumab) ≥ 6 years

Fasenra (benralizumab) ≥ 12 years

Nucala (mepolizumab) ≥ 6 years

Tezspire (tezepelumab-ekko) ≥ 12 years

Xolair (omalizumab) ≥ 6 years

Background:

Severe asthma is present, by definition, when adequate control of asthma cannot be achieved by high-dose treatment with inhaled corticosteroids and additional controllers (long-acting inhaled beta 2 agonists, montelukast, and/or theophylline) or by oral corticosteroid treatment (for at least six months per year) or is lost when the treatment is reduced.

Criteria for approval:

- 1. Confirmed Diagnosis of one of the following:
 - a. Asthma with eosinophilic phenotype with blood eosinophil counts ≥ 150 cells/microliter while on high-dose inhaled corticosteroids or oral corticosteroids
 AND
 - i. Severe asthma (Fasenra, Cinqair, Nucala, Tezspire)
 - b. Moderate to severe asthma (Dupixent) OR
 - c. Moderate to severe persistent allergic asthma with one of the following: (Xolair)
 - i. A positive skin test OR
 - ii. In-vitro reactivity to a perennial aeroallergen
- 2. Medication is used as add on therapy for patients on conventional asthma treatment (e.g., inhaled corticosteroid (ICS), long-acting beta-2 agonist (LABA), leukotriene receptor antagonist (LTRA), long-acting muscarinic antagonist (LAMA), theophylline.
- 3. Medication and dosage is used for the appropriate age
- 4. Medication is prescribed by or in consultation with a pulmonologist, allergist, or immunologist
- 5. Patient must have experienced ≥ 2 exacerbations within the last 12 months despite meeting all of the following (exacerbation is defined as requiring the use of oral/systemic corticosteroids, urgent care/hospital admission, or intubation):



- Adherence to a maximally tolerated inhaled corticosteroid for the past 3 months or has intolerance, contraindication, or hypersensitivity to all inhaled corticosteroids; AND
- Adherence to at least ONE of the afore mentioned therapies (LABA, LTRA, or LAMA) for 90 consecutive days) unless there is documented intolerance, contraindication, or hypersensitivity.
- 6. The patient will not be concomitantly using another biologic drug for the same indication [e.g., omalizumab (Xolair), reslizumab (Cinqair), mepolizumab (Nucala), or benralizumab (Fasenra)].
- 7. Weight will be monitored for drugs that have weight-based dosing
- 8. Tezspire and Cinqair will be administered by a healthcare professional
- Medication is prescribed in accordance with Food and Drug Administration (FDA)
 established indication and dosing regimens or in accordance with medically
 appropriate off-label indication and dosing according to American Hospital Formulary
 Service, Micromedex, Clinical Pharmacology, Wolters Kluwer Lexi-Drugs (Lexicomp),
 national guidelines, or other peer-reviewed evidence

Initial Approval: 6 months

Continuation of therapy:

- 1. Documentation of positive clinical response to therapy by at least one of the following:
 - a. A decrease asthma symptoms and frequency of exacerbation from baseline
 - b. Improved lung function, defined as FEV1 increase from baseline
 - c. Reduction of number of hospitalizations, need for mechanical ventilation, or visits to urgent care or emergency room due to asthma exacerbations
 - Reduction in the dose of inhaled/oral corticosteroids required to control the patient's asthma
 - e. Decreased utilization of rescue medications

2. For Xolair requests:

Medication will be administered by a healthcare provider unless the patient has already received at least 3 doses under the guidance of a healthcare provider with no hypersensitivity reactions

Renewal Approval: 12 months

Quantity Level Limits:

Cingair

Initial QLL: 100 mg/10 mL (10 mg/mL) single use vial / 3 vials per 28 days



• Renewal QLL: Cinqair 100 mg/10 mL (10 mg/mL) single use vial / 6 vials per 28 days

Dupixent

- Dupixent 200 mg/ 1.14 mL pre-filled syringe/pen:2 syringes/pens per 28 days
- Dupixent 300 mg/ 2 mL pre-filled syringe/pen: 4 syringes/pens per 28 days
- Dupixent 100 mg/ 0.67 mL pre-filled syringe: 2 syringes per 28 days

Tezspire

QLL, 1 vial, syringe or pen per 28 days

Fasenra

- Initial QLL: 3 syringes for first 84 days
- Renewal QLL: 1 syringe per 56 days

Nucala

- Nucala 100 mg single-dose vial: 3 vials per 28 days
- Nucala 100 mg/mL single-dose prefilled safety syringe: 3 syringes per 28 days
- Nucala 100 mg/mL single-dose prefilled autoinjector: 3 autoinjector's per 28 days
- Nucala 40mg/0.4mL, single-dose prefilled syringe: 1 syringe per 28 days

Xolair

- Xolair 150 mg vial: 8 vials per 28 days
- Xolair 75 mg single-dose prefilled syringe: 2 syringes per 28 days
- Xolair 150 mg single-dose prefilled syringe: 8 syringes per 28 days

References:

- 1. Cinqair [package insert]. Teva Respiratory, LLC; West Chester, PA: June 2020
- 2. Dupixent [package insert]. Regeneron Pharmaceuticals, Inc. Tarrytown, NY: October 2021
- 3. Fasenra [package insert] AstraZeneca Pharmaceuticals, LP; Wilmington, DE: February 2021
- 4. Nucala [package insert]. GlaxoSmithKline LLC; Philadelphia, PA: October 2021.
- 5. Tezspire [package insert]. AstraZenaca AB; Sodertalie, Sweden SE; December 2021
- 6. Xolair [package insert]. Genentech, Inc.; South San Francisco, CA; July 2021
- 7. Clinical Pharmacology® Gold Standard Series [Internet database]. Tampa FL. Elsevier 2016. Updated periodically
- Holguin F, Cardet JC, Chung KF, et al. Management of severe asthma: a European Respiratory Society/American Thoracic Society guideline. European Res J 2020;55(1):1-21. https://pubmed.ncbi.nlm.nih.gov/31558662/ Accessed on October 4, 2022
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- 11. Global Initiative for Asthma (GINA). Global Strategy For Asthma Management and Prevention, Global Initiative for Asthma (GINA) 2022. Available at www.ginasthma.org