



## benralizumab (Fasenra<sup>TM</sup>)

Policy # 00606

Original Effective Date: 02/21/2018

Current Effective Date: 03/11/2024

*Applies to all products administered or underwritten by Blue Cross and Blue Shield of Louisiana and its subsidiary, HMO Louisiana, Inc. (collectively referred to as the "Company"), unless otherwise provided in the applicable contract. Medical technology is constantly evolving, and we reserve the right to review and update Medical Policy periodically.*

### When Services May Be Eligible for Coverage

*Coverage for eligible medical treatments or procedures, drugs, devices or biological products may be provided only if:*

- *Benefits are available in the member's contract/certificate, and*
- *Medical necessity criteria and guidelines are met.*

Based on review of available data, the Company may consider benralizumab (Fasenra<sup>TM</sup>)<sup>†</sup> for add-on maintenance treatment of severe asthma (eosinophilic phenotype) to be **eligible for coverage**.\*\*

#### Patient Selection Criteria

Coverage eligibility for benralizumab (Fasenra) will be considered for add-on maintenance treatment of severe asthma (eosinophilic phenotype) when the following criteria are met:

#### **Initial Authorization:**

- I. Fasenra is being used for the treatment of severe asthma (eosinophilic phenotype); AND
- II. Patient is greater than or equal to 12 years of age; AND
- III. Fasenra is NOT being used in combination with other monoclonal antibodies typically used to treat asthma [e.g., reslizumab (Cinqair<sup>®</sup>), omalizumab (Xolair<sup>®</sup>), mepolizumab (Nucala<sup>®</sup>), dupilumab (Dupixent<sup>®</sup>)]<sup>‡</sup> AND
- IV. Fasenra is dosed at 30 mg every 4 weeks for the first 3 doses, followed by once every 8 weeks thereafter; AND
- V. Patient has a peripheral blood eosinophil count of greater than or equal to 150 cells per microliter within the past 6 weeks or within 6 weeks prior to treatment with any interleukin asthma therapy [benralizumab (Fasenra), mepolizumab (Nucala), reslizumab (Cinqair), dupilumab (Dupixent)]; AND
- VI. Patient has received at least 3 consecutive months of combination therapy with BOTH of the following (a and b):

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*(Note that the 3 month timeframe is an additional company requirement and will be denied as not medically necessary\*\* if not met);*

- a) An inhaled corticosteroid (ICS) [e.g. fluticasone products (Flovent® HFA, Flovent® Diskus®, Arnuity™ Ellipta®, Armonair™ Respiclick®)†, mometasone products (Asmanex® Twisthaler®, Asmanex® HFA)†, flunisolide products (Aersopan™)†, ciclesonide products (Alvesco®)†, budesonide products (Pulmicort Flexhaler®)†, beclomethasone products (QVAR®)†]; AND

- b) At least ONE of the following (1, 2, 3, OR 4):

- 1) Inhaled long-acting beta-agonist (LABA) [e.g., salmeterol products (Serevent® Diskus)†, olodaterol products (Striverdi® Respimat®), indacaterol products (Arcapta™ Neohaler™)]; OR

*NOTE: Use of a combination inhaler containing both an ICS and a LABA would fulfil the requirement for both criteria a.) and b.) [e.g. fluticasone propionate and salmeterol inhalation powder/aerosol (Advair® Diskus/HFA, fluticasone/salmeterol generics, Wixela™ Inhub, AirDuo™ Respiclick)†, budesonide and formoterol fumarate inhalation aerosol (Symbicort®)†, fluticasone furoate and vilanterol inhalation powder (Breo® Ellipta®)†, mometasone furoate and formoterol fumarate inhalation aerosol (Dulera®)†].*

- 2) Inhaled long-acting muscarinic antagonist (LAMA) [e.g. tiotropium bromide inhalation spray (Spiriva® Respimat®, Stiolto® Respimat)†, aclidinium products (Tudorza® Pressair®)†, glycopyrrolate products (Seebri™ Neohaler, Bevespi™ Aerosphere, Utibron™ Neohaler), umeclidinium products (Incruse® Ellipta, Anoro® Ellipta)]; OR

- 3) Leukotriene receptor antagonist (LTRA) [e.g. montelukast tablets/granules (Singulair®, generics), zafirlukast tablets (Accolate®)]†; OR

- 4) Theophylline (Theo-24, Uniphyll, TheoChron ER, generics); AND

VII. Patient's asthma continues to be uncontrolled as defined by ONE of the following (a, b, c, d, or e):

- a) Patient experienced two or more asthma exacerbations requiring treatment with systemic corticosteroids in the previous year; OR
- b) Patient experienced one or more asthma exacerbation requiring hospitalization or an Emergency Department (ED) visit in the previous year; OR
- c) Patient has a forced expiratory volume in 1 second (FEV<sub>1</sub>) < 80% predicted; OR

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- d) Patient has an FEV<sub>1</sub>/forced vital capacity (FVC) < 0.80; OR
- e) Patient's asthma worsens upon tapering of oral corticosteroid therapy.

## Re-Authorization

Coverage continuation for benralizumab (Fasenra) will be considered for add-on maintenance treatment of severe asthma (eosinophilic phenotype) when the following criteria are met:

- I. Patient received an initial authorization for the requested drug on the same requested benefit; AND
- II. Fasenra is being used for the treatment of severe asthma (eosinophilic phenotype); AND
- III. Fasenra is NOT being used in combination with other monoclonal antibodies typically used to treat asthma [e.g., reslizumab (Cinqair), omalizumab (Xolair), mepolizumab (Nucala), dupilumab (Dupixent)]; AND
- IV. Fasenra is dosed at 30 mg every 8 weeks; AND
- V. Patient continues to receive the medications required in criterion VI. in the "Initial Criteria"; AND
- VI. Patient has responded to Fasenra therapy as determined by the prescribing physician [e.g., decreased asthma exacerbations; decreased asthma symptoms; decreased hospitalizations, emergency department (ED)/urgent care, or physician visits due to asthma; decreased requirement for oral corticosteroid therapy.]

*(Note that this criterion is an additional company requirement and will be denied as not medically necessary\*\* if not met)*

## When Services Are Considered Not Medically Necessary

Based on review on available data, the Company considers the use of benralizumab (Fasenra) when the patient has NOT been on the pre-requisite medications for at least 3 consecutive months to be **not medically necessary.\*\***

Based on review on available data, the Company considers the continued use of benralizumab (Fasenra) when the patient has NOT responded to benralizumab (Fasenra) therapy as determined by the prescribing physician to be **not medically necessary.\*\***

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## When Services Are Considered Investigational

*Coverage is not available for investigational medical treatments or procedures, drugs, devices or biological products.*

Based on review of available data, the Company considers the use of benralizumab (Fasenra) when the patient selection criteria are not met (with the exception of those denoted above as **not medically necessary\*\***) to be **investigational**.\*

Based on review of available data, the Company considers the use of benralizumab (Fasenra) for indications other than the add-on maintenance treatment of severe asthma (eosinophilic phenotype) to be **investigational**.\*

## Background/Overview

Fasenra is an IL-5 antagonist monoclonal antibody (IgG1 kappa) indicated for add-on maintenance treatment of patients with severe asthma aged 12 years and older, with an eosinophilic phenotype. IL-5 is expressed on the surface of eosinophils and basophils. IL-5 is the major cytokine responsible for the growth and differentiation, recruitment, activation, and survival of eosinophils. Fasenra binds to IL-5, inhibiting the bioactivity of IL-5 by blocking its binding to the alpha chain of the IL-5 receptor complex. Inflammation is an important component in the pathogenesis of asthma. Multiple cell types (e.g., mast cells, eosinophils, neutrophils, macrophages, lymphocytes) and mediators (e.g., histamine, eicosanoids, leukotrienes, cytokines) are involved in inflammation. Fasenra, by inhibiting IL-5 signaling, reduces the production and survival of eosinophils; however, the mechanism of action in asthma has not been definitively established. Fasenra is provided in 30 mg/mL single dose prefilled syringes as well as 30 mg/mL single dose auto-injectors. Fasenra pre-filled syringes should be administered by a healthcare professional, while the auto-injectors are intended for administration by patients/caregivers. The dosing of Fasenra is 30 mg every 4 weeks for the first three doses, followed by once every 8 weeks thereafter.

### **Asthma**

Asthma is a respiratory disorder characterized by increased responsiveness of the trachea and bronchi to various stimuli resulting in the narrowing of the airways, along with mucous secretion. Symptoms vary in severity and intensity and include wheezing, cough and dyspnea. Attacks can be

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triggered by exercise, allergens, irritants and viral infections. Based on symptoms, the four levels of asthma severity are:

- Mild intermittent (comes and goes)—you have episodes of asthma symptoms twice a week or less, and you are bothered by symptoms at night twice a month or less; between episodes, however, you have no symptoms and your lung function is normal.
- Mild persistent asthma—you have asthma symptoms more than twice a week, but no more than once in a single day. You are bothered by symptoms at night more than twice a month. You may have asthma attacks that affect your activity.
- Moderate persistent asthma—you have asthma symptoms every day, and you are bothered by nighttime symptoms more than once a week. Asthma attacks may affect your activity.
- Severe persistent asthma—you have symptoms throughout the day on most days, and you are bothered by nighttime symptoms often. In severe asthma, your physical activity is likely to be limited.

Treatment of asthma is based on a step up and step down approach based on the asthma severity and symptoms. Medications include short acting beta agonists for fast relief. Long term treatment centers around the use of inhaled corticosteroids and possible addition of medications such as long acting beta agonists, leukotriene receptor antagonists, inhaled long acting muscarinic antagonists, or theophylline.

## **FDA or Other Governmental Regulatory Approval**

### **U.S. Food and Drug Administration (FDA)**

Fasenra was approved in late 2017 for add-on maintenance treatment of patients with severe asthma aged 12 years and older, with an eosinophilic phenotype.

## **Rationale/Source**

This medical policy was developed through consideration of peer-reviewed medical literature generally recognized by the relevant medical community, U.S. FDA approval status, nationally accepted standards of medical practice and accepted standards of medical practice in this community, technology evaluation centers, reference to federal regulations, other plan medical policies, and accredited national guidelines.

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Fasenra had three confirmatory trials and one 12 week lung function trial. Trials 1 and 2 were randomized, double-blind, parallel-group, placebo controlled exacerbation trials in patients 12 years of age and older for 48 and 56 weeks, respectively. Patients were required to be on asthma medications (inhaled corticosteroids, long acting beta agonists, oral corticosteroids, etc.) and were also stratified as having a baseline eosinophil count of greater than or equal to 300 cells/microliter OR less than 300 cells per microliter. Fasenra was given per the package insert labeled dosing. The primary endpoint for these trials was the rate of asthma exacerbations in patients with baseline blood eosinophil counts of greater than or equal to 300 cells per microliter who were taking high dose inhaled corticosteroids and long acting beta agonists. In trial 1, 35% of patients receiving Fasenra experienced an asthma exacerbation compared to 51% on placebo. In trial 2, 40% of patients receiving Fasenra experienced an asthma exacerbation compared to 51% on placebo. In a subgroup analysis, reductions in exacerbation rates for those with baseline eosinophil counts greater than or equal to 300 cells/microliter showed a numerically greater response than those with a baseline count of less than 300 cells/microliter.

In a pooled analysis of the two confirmatory asthma exacerbation studies, patients with baseline eosinophil levels  $\geq 150$  cells/microliter experienced 37% reduction in the annual asthma exacerbation rate with Fasenra (at the recommended dose) compared with placebo.

Trial 3 was a randomized, double-blind, parallel-group, oral corticosteroid reduction trial. Patients were required to have daily treatment with oral corticosteroids in addition to asthma inhalers. There was an 8 week run-in period during which the oral corticosteroid was titrated to the minimum effective dose without losing asthma control. Patients were required to have eosinophils greater than or equal to 150 cells/microliter and a history of at least one exacerbation. Fasenra was given as per the package insert dosing. The primary endpoint was the percent reduction from baseline of the final oral corticosteroid dose during weeks 24 to 28, while maintaining asthma control. Compared to placebo, patients receiving Fasenra achieved greater reductions in daily maintenance oral corticosteroid dose while maintaining asthma control. The median percent reduction in daily OCS dose from baseline was 75% in those receiving Fasenra compared to 25% in patients receiving placebo. Reductions of 50% or higher in oral corticosteroid dose were observed in 66% of those receiving Fasenra compared to 37% receiving placebo. The proportion of patients with a mean final dose less than or equal to 5 mg at weeks 24 to 28 was 59% for Fasenra and 33% for placebo. Only patients with an optimized baseline oral corticosteroid dose of 12.5 mg or less were eligible to

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achieve a 100% reduction in oral corticosteroid dose during the study. Of those patients, 52% receiving Fasenra and 19% on placebo achieved a 100% reduction in the oral corticosteroid dose.

Change from baseline in mean FEV<sub>1</sub> was assessed in these 3 trials as a secondary endpoint. Compared with placebo, Fasenra provided consistent improvements over time in the mean change from baseline in FEV<sub>1</sub>.

## **References**

1. Fasenra [package insert]. AstraZeneca. Wilmington, Delaware. Updated October 2019.
2. Fasenra Prior Authorization Policy. Express Scripts. December 2018.
3. Expert Panel Report 3: Guidelines for the Diagnosis and Management of Asthma (EPR-3). National Heart, Lung, and Blood Institute. [www.nhlbi.nih.gov/guidelines/asthma](http://www.nhlbi.nih.gov/guidelines/asthma).
4. FitzGerald JM, Bleecker ER, Menzies-Gow A, et al. Predictors of enhanced response with benralizumab for patients with severe asthma: pooled analysis of the SIROCCO and CALIMA studies. *Lancet Respir Med*. 2018;6(1):51-64.

## **Policy History**

Original Effective Date: 02/21/2018

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02/01/2018	Medical Policy Committee review
02/21/2018	Medical Policy Implementation Committee approval. New policy.
02/07/2019	Medical Policy Committee review
02/20/2019	Medical Policy Implementation Committee approval. Changed eosinophil count from 300 cells/microliter to 150 cells/microliter.
02/06/2020	Medical Policy Committee review
02/12/2020	Medical Policy Implementation Committee approval. Added information about the self-injectable dosage form. Updated inhalers within criteria.
02/04/2021	Medical Policy Committee review
02/10/2021	Medical Policy Implementation Committee approval. Clarified that for a continuation request, an initial authorization must be present on the same benefit. No coverage changes.
02/03/2022	Medical Policy Committee review

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02/09/2022 Medical Policy Implementation Committee approval. Criteria eligibility unchanged.

02/02/2023 Medical Policy Committee review

02/08/2023 Medical Policy Implementation Committee approval. Criteria eligibility unchanged.

02/01/2024 Medical Policy Committee review

02/14/2024 Medical Policy Implementation Committee approval. Criteria eligibility unchanged.

Next Scheduled Review Date: 02/2025

## **Coding**

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Codes used to identify services associated with this policy may include (but may not be limited to) the following:

Code Type	Code
CPT	No codes
HCPCS	J0517 Delete codes effective 03/01/2024: J3490, J3590
ICD-10 Diagnosis	J45.50-J45.998

\*Investigational – A medical treatment, procedure, drug, device, or biological product is Investigational if the effectiveness has not been clearly tested and it has not been incorporated into standard medical practice. Any determination we make that a medical treatment, procedure, drug, device, or biological product is Investigational will be based on a consideration of the following:

- A. Whether the medical treatment, procedure, drug, device, or biological product can be lawfully marketed without approval of the U.S. Food and Drug Administration (FDA) and whether such approval has been granted at the time the medical treatment, procedure, drug, device, or biological product is sought to be furnished; or
- B. Whether the medical treatment, procedure, drug, device, or biological product requires further studies or clinical trials to determine its maximum tolerated dose, toxicity, safety, effectiveness, or effectiveness as compared with the standard means of treatment or diagnosis, must improve health outcomes, according to the consensus of opinion among experts as shown by reliable evidence, including:
  1. Consultation with technology evaluation center(s);
  2. Credible scientific evidence published in peer-reviewed medical literature generally recognized by the relevant medical community; or
  3. Reference to federal regulations.

\*\*Medically Necessary (or “Medical Necessity”) - Health care services, treatment, procedures, equipment, drugs, devices, items or supplies that a Provider, exercising prudent clinical judgment, would provide to a patient for the purpose of preventing, evaluating, diagnosing or treating an illness, injury, disease or its symptoms, and that are:

- A. In accordance with nationally accepted standards of medical practice;

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- B. Clinically appropriate, in terms of type, frequency, extent, level of care, site and duration, and considered effective for the patient's illness, injury or disease; and
- C. Not primarily for the personal comfort or convenience of the patient, physician or other health care provider, and not more costly than an alternative service or sequence of services at least as likely to produce equivalent therapeutic or diagnostic results as to the diagnosis or treatment of that patient's illness, injury or disease.

For these purposes, "nationally accepted standards of medical practice" means standards that are based on credible scientific evidence published in peer-reviewed medical literature generally recognized by the relevant medical community, Physician Specialty Society recommendations and the views of Physicians practicing in relevant clinical areas and any other relevant factors.

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**NOTICE:** If the Patient's health insurance contract contains language that differs from the BCBSLA Medical Policy definition noted above, the definition in the health insurance contract will be relied upon for specific coverage determinations.

**NOTICE:** Medical Policies are scientific based opinions, provided solely for coverage and informational purposes. Medical Policies should not be construed to suggest that the Company recommends, advocates, requires, encourages, or discourages any particular treatment, procedure, or service, or any particular course of treatment, procedure, or service.

**NOTICE:** Federal and State law, as well as contract language, including definitions and specific contract provisions/exclusions, take precedence over Medical Policy and must be considered first in determining eligibility for coverage.

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