

Tezspire® (Tezepelumab-Ekko)

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[Instructions for Use](#)

Table of Contents	Page
Application	1
Coverage Rationale	1
Applicable Codes	2
Background	3
Clinical Evidence	3
U.S. Food and Drug Administration	4
References	4
Policy History/Revision Information	5
Instructions for Use	5

Related Policies
None

Application

This Medical Benefit Drug Policy does not apply to the states listed below; refer to the state-specific policy/guideline, if noted:

State	Policy/Guideline
Florida	Refer to the state’s Medicaid clinical policy
Indiana	Tezspire® (Tezepelumab-Ekko) (for Indiana Only)
Kansas	Refer to the state’s Medicaid clinical policy
Louisiana	Tezspire® (Tezepelumab-Ekko) (for Louisiana Only)
Mississippi	Tezspire® (Tezepelumab-Ekko) (for Mississippi Only)
North Carolina	None

Coverage Rationale

Tezspire is proven and medically necessary when all of the following criteria is met:

- For initial therapy, all of the following:
 - Diagnosis of severe asthma; and
 - Classification of asthma as uncontrolled or inadequately controlled as defined by at least one of the following:
 - Poor symptom control (e.g., ACQ score consistently greater than 1.5 or ACT score consistently less than 20); or
 - Two or more bursts of systemic corticosteroids for at least 3 days each in the previous 12 months; or
 - Asthma-related emergency treatment (e.g., emergency room visit, hospital admission, or unscheduled physician’s office visit for nebulizer or other urgent treatment); or
 - Airflow limitation [e.g., after appropriate bronchodilator withhold FEV1 less than 80% predicted (in the face of reduced FEV1/FVC defined as less than the lower limit of normal)]; or
 - Patient is currently dependent on maintenance therapy with oral corticosteroids for the treatment of asthma and
 - Used in combination with one of the following:

- One maximally-dosed (appropriately adjusted for age) combination inhaled corticosteroid (ICS)/long-acting beta₂ agonist (LABA) product [e.g., Advair/AirDuo Respiclick (fluticasone propionate/salmeterol), Symbicort (budesonide/formoterol), Breo Ellipta (fluticasone furoate/vilanterol)]; or
 - Combination therapy including both of the following:
 - One high-dose (appropriately adjusted for age) ICS product [e.g., ciclesonide (Alvesco[®]), mometasone furoate (Asmanex[®]), beclomethasone dipropionate (QVAR[®])]; and
 - One additional asthma controller medication [e.g., LABA - olodaterol (Striverdi[®]) or indacaterol (Arcapta[®]), leukotriene receptor antagonist – montelukast (Singulair[®]), theophylline]
- and
- One of the following:
 - History of failure, contraindication, or intolerance to a 4 month trial of an anti-interleukin 5 therapy [e.g., Nucala (mepolizumab), Fasentra (benralizumab)]; or
 - Patient's asthma is not of the eosinophilic phenotype; or
 - Patient is currently on Tezspire
- and
- Patient is not receiving Tezspire in combination with any of the following:
 - Anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Fasentra (benralizumab), Nucala (mepolizumab)]
 - Anti-IgE therapy [e.g., Xolair (omalizumab)]
 - Anti-interleukin 4 therapy [e.g., Dupixent (dupilumab)]
 - Tezspire dosing is in accordance with the United States Food and Drug Administration-approved labeling; and
 - Tezspire is prescribed by a pulmonologist or allergist/immunologist; and
 - Initial authorization will be for no more than 6 months.
- For continuation of therapy, all of the following:
 - Documentation of a positive clinical response as demonstrated by at least one of the following:
 - Reduction in the frequency of exacerbations
 - Decreased utilization of rescue medications
 - Increase in percent predicted FEV1 from pretreatment baseline
 - Reduction in severity or frequency of asthma-related symptoms (e.g., wheezing, shortness of breath, coughing, etc.)
- and
- Used in combination with an ICS-containing controller medication; and
 - Patient is not receiving Tezspire in combination with any of the following:
 - Anti-interleukin 5 therapy [e.g., Cinqair (reslizumab), Fasentra (benralizumab), Nucala (mepolizumab)]
 - Anti-IgE therapy [e.g., Xolair (omalizumab)]
 - Anti-interleukin 4 therapy [e.g., Dupixent (dupilumab)]
- and
- Tezspire dosing is in accordance with the United States Food and Drug Administration-approved labeling; and
 - Reauthorization will be for no more than 12 months.

Applicable Codes

The following list(s) of procedure and/or diagnosis codes is provided for reference purposes only and may not be all inclusive. Listing of a code in this policy does not imply that the service described by the code is a covered or non-covered health service. Benefit coverage for health services is determined by the member specific benefit plan document and applicable laws that may require coverage for a specific service. The inclusion of a code does not imply any right to reimbursement or guarantee claim payment. Other Policies and Guidelines may apply.

HCPCS Code	Description
J2356	Injection, Tezepelumab-ekko, 1 mg

Diagnosis Code	Description
J45.50	Severe persistent asthma, uncomplicated
J45.51	Severe persistent asthma with (acute) exacerbation

Diagnosis Code	Description
J45.52	Severe persistent asthma with status asthmaticus
J82.83	Eosinophilic asthma

Background

Asthma is a common chronic inflammatory disease of the airways that affects an estimated 24 million adults and children. Although the disease is well controlled with inhaled therapy in most patients, approximately 1.2-2.4 million people have severe asthma (i.e., 5-10% of the asthma population) that is associated with substantial morbidity, mortality, and economic effects. Asthma has been divided into various clinical presentations or phenotypes. Key asthma phenotypes include allergic asthma, eosinophilic asthma, and non-eosinophilic asthma. Eosinophilic asthma is characterized by an increase in the blood and sputum eosinophil (EOS) levels; fractional exhaled nitric oxide (FeNO) also provides an indication of level of eosinophilic inflammation in the lung. In contrast, allergic asthma is characterized by a positive perennial aeroallergen skin test and/or increased levels of serum IgE. In current clinical practice, such phenotypic biomarkers are central to the management of severe, uncontrolled asthma as existing asthma biologic therapies are targeted at either eosinophilic or allergic asthma.¹ Approximately one-half of patients may present with overlapping or changing phenotypes, and almost 30% may not have a defined inflammatory pathway.²

Tezepelumab-ekko is a human monoclonal antibody that acts at the top of the inflammatory cascade by specifically binding TSLP, blocking TSLP from interacting with its receptor. Blocking TSLP with tezepelumab-ekko reduces downstream markers of inflammation, including blood EOS, immunoglobulin E (IgE), fractional exhaled nitric oxide (FeNO), interleukin 5 (IL-5), and interleukin 13 (IL-13).³ Unlike other FDA-approved biologic therapies for severe asthma that target downstream inflammatory pathways and are indicated for specific patient phenotypes, because of its upstream activity early in the inflammatory cascade, tezepelumab-ekko is suitable for a broad spectrum of severe asthma patients irrespective of asthma phenotype.

Clinical Evidence

Proven

Tezepelumab-ekko is indicated for the add-on maintenance treatment of adult and pediatric patients aged 12 years and older with severe asthma.⁴

The efficacy of tezepelumab-ekko was established in two randomized, double-blind, placebo-controlled studies in 1,609 patients 12 years of age and older with severe asthma. PATHWAY was a 52-week dose-ranging study in which patients received tezepelumab-ekko 70 mg every 4 weeks, Tezspire 210 mg every 4 weeks, tezepelumab-ekko 280 mg every 2 weeks, or placebo. NAVIGATOR was a 52-week study in which patients received tezepelumab-ekko 210 mg every 4 weeks or placebo. The primary endpoint in both studies was the rate of clinically significant asthma exacerbations measured over 52 weeks. Asthma exacerbations were defined as worsening of asthma requiring the use of or increase in oral or injectable corticosteroids for at least 3 days, or a single depo-injection of corticosteroids, and/or emergency department visits requiring use of oral or injectable corticosteroids and/or hospitalization. In PATHWAY, the annualized rate of asthma exacerbations was 0.20 with tezepelumab-ekko vs. 0.72 with placebo (rate ratio 0.29, 95% CI: 0.16, 0.51). In NAVIGATOR, the annualized rate of asthma exacerbations was 0.93 with tezepelumab-ekko vs. 2.10 with placebo (rate ratio 0.44, 95% CI: 0.37, 0.53). In NAVIGATOR, patients receiving tezepelumab-ekko experienced fewer exacerbations than those receiving placebo regardless of baseline levels of blood eosinophils or fractional exhaled nitric oxide (FeNO). Similar results were seen in PATHWAY.

Tezepelumab-ekko was also evaluated in a randomized, double-blind, placebo-controlled clinical study in 150 adult patients with severe asthma requiring treatment with daily oral corticosteroids (OCS). Patients received tezepelumab-ekko 210 mg every 4 weeks or placebo. The primary endpoint was categorized percent reduction from baseline of the final OCS dose at week 48 ($\geq 90\%$ reduction, $\geq 75\%$ to $< 90\%$ reduction, $\geq 50\%$ to $< 75\%$ reduction, $> 0\%$ to $< 50\%$ reduction, and no change or no decrease in OCS), while maintaining asthma control. Tezspire did not demonstrate a statistically significant reduction in maintenance OCS dose vs. placebo (cumulative odds ratio 1.28, 95% CI: 0.69, 2.35).

Professional Societies

Global Initiative for Asthma

The Global Initiative for Asthma (GINA, 2021) recommends that for Step 5 treatment, adults and adolescents, may be treated with Fasenra (benralizumab), Dupixent (dupilumab), Nucala (mepolizumab), Xolair (omalizumab) or Cinquair (reslizumab) as follows:¹

- Refer for expert assessment, phenotyping, and add-on therapy. Patients of any age with persistent symptoms or exacerbations despite correct inhaler technique and good adherence with Step 4 treatment and in whom other controller options have been considered, should be referred to a specialist with expertise in investigation and management of severe asthma (Evidence D).
- Add-on treatment for moderate or severe allergic asthma that is uncontrolled on Step 4-5 treatment: anti-immunoglobulin E (subcutaneous omalizumab for patients ≥ 12 years) (Evidence A).
- Add-on treatment for severe eosinophilic asthma that is uncontrolled on Step 4-5 treatment: anti-interleukin 5/5R treatment (subcutaneous mepolizumab for patients aged ≥ 6 years; intravenous reslizumab for ages ≥ 18 years or subcutaneous benralizumab for ages ≥ 12 years) (Evidence A).
- Add-on treatment for severe Type 2 asthma or requiring treatment with maintenance OCS: anti-interleukin-4R α treatment (subcutaneous dupilumab for ages ≥ 6 years) (Evidence A).

Institute for Clinical and Economic Review (ICER)

On November 4, 2021, the Institute for Clinical and Economic Review (ICER) released a clinical report entitled, “Tezpelumab for Severe Asthma.” ICER recommendations are as follows:⁵

- ICER rates the net health benefit of tezpelumab-ekko added to standard-of-care therapy without biologics, compared with standard-of-care therapy alone in adults and adolescents with severe, uncontrolled asthma as “Comparable or Better” (C++).
- ICER judges the current body of evidence tezpelumab-ekko compared with dupilumab in patients with eosinophilic asthma as “Insufficient” (I). In the subgroup of patients with eosinophilic asthma, reductions in AAER and (small) improvements in daily symptoms and quality of life seem similar to those seen with dupilumab. Dupilumab has substantially more evidence on long-term safety.
- ICER judges the current body of evidence for tezpelumab-ekko compared with omalizumab in patients with allergic asthma as “insufficient” (I).
- ICER rates the treatment of patients with steroid-dependent asthma as “Comparable or Inferior” (C-) to treatment with dupilumab.

U.S. Food and Drug Administration (FDA)

This section is to be used for informational purposes only. FDA approval alone is not a basis for coverage.

Tezpire (tezpelumab-ekko) is indicated for the add-on maintenance treatment of adult and pediatric patients aged 12 years and older with severe asthma. Tezpelumab-ekko is not indicated for the relief of acute bronchospasm or status asthmaticus.¹

References

1. Global Initiative for Asthma. Global Strategy for Asthma Management and Prevention, 2021. Available at <http://www.ginasthma.org>. Accessed December 22, 2021.
2. Tran TN, Zeiger RS, Peters SP, et al. Overlap of atopic, eosinophilic, and TH2-high asthma phenotypes in a general population with current asthma. *Ann Allergy Asthma Immunol*. 2016;116(1):37-42. doi:10.1016/j.anai.2015.10.027.
3. Corren J, Ziegler SF. TSLP: from allergy to cancer. *Nat Immunol*. 2019;20(12):1603-1609. doi:10.1038/s41590-019-0524-9.
4. Tezpire® [package insert]. Thousand Oakes, CA: Amgen Inc.; December 2021.
5. Institute for Clinical and Economic Review (ICER). Tezpelumab for Severe Asthma. November 4, 2021. Available at ICER | Working Towards Fair Pricing, Fair Access, & Future Innovation. Accessed December 22, 2021.

Policy History/Revision Information

Date	Summary of Changes
12/01/2022	Application <i>Louisiana</i> <ul style="list-style-type: none">Updated reference link to reflect title change for <i>Tezspire® (Tezepelumab) (for Louisiana Only)</i>
10/01/2022	Application <i>Florida</i> <ul style="list-style-type: none">Added language to indicate this Medical Benefit Drug Policy does not apply to the state of Florida; refer to the state's Medicaid clinical policy <i>Mississippi</i> <ul style="list-style-type: none">Added reference link to the Medical Benefit Drug Policy titled <i>Tezspire® (Tezepelumab-Ekko) (for Mississippi Only)</i> Supporting Information <ul style="list-style-type: none">Archived previous policy version CS2022D00110C

Instructions for Use

This Medical Policy provides assistance in interpreting UnitedHealthcare standard benefit plans. When deciding coverage, the federal, state or contractual requirements for benefit plan coverage must be referenced as the terms of the federal, state or contractual requirements for benefit plan coverage may differ from the standard benefit plan. In the event of a conflict, the federal, state or contractual requirements for benefit plan coverage govern. Before using this policy, please check the federal, state or contractual requirements for benefit plan coverage. UnitedHealthcare reserves the right to modify its Policies and Guidelines as necessary. This Medical Policy is provided for informational purposes. It does not constitute medical advice.

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