

Tepezza® (Teprotumumab-Trbw) (for Louisiana Only)

Policy Number:	CSLA2021D0089D CB
Effective Date:	September 1, 2021 TBD

→ Instructions for Use

Table of Contents	Page
Application	1
Coverage Rationale	1
Definitions	2
Applicable Codes	2
Background	3
Clinical Evidence	3
U.S. Food and Drug Administration	4
References	4
Policy History/Revision Information	54
Instructions for Use	$\overline{5}_{4}$

Application

This Medical Benefit Drug Policy only applies to the state of Louisiana.

Coverage Rationale

Thyroid Eve Disease

Tepezza is proven and medically necessary for the treatment of thyroid eye disease when all of the following criteria are met:

- Diagnosis of Graves' disease associated with active thyroid eye disease (TED) with a Clinical Activity Score (CAS) \geq 4 in the most severely affected eye; and
- ullet Presence of moderately to severely active TED, associated with at least **one** of the following: 2,4
 - o Lid retraction ≥ 2 mm
 - o Moderate or severe soft tissue involvement
 - o Exophthalmos \geq 3 mm above normal for race and gender
 - o Diplopia;

and

- One of the following:
 - o Patient <u>must be is euthyroid with [defined as free triiodothyronine (T3) and thyroxine (T4) levels within the normal limits]; thyroid function under control or</u>
 - O Presence of Mmild hypo-thyroidism or hyperthyroidism [defined as free T3 and T4 levels less than 50% above or below the normal limits] and patient is undergoing treatment to correct the mild hypo- or hyperthyroidism to and/or maintain a euthyroid state;

and

- Tepezza is prescribed by, or in consultation with, an endocrinologist or ophthalmologistspecialist with expertise in the treatment of Graves' disease associated with TED; and
- Tepezza will not be used in combination with another biologic immunomodulator [e.g., rituximab (Rituxan®, Ruxience®, Truxima®, Riabni™), Actemra® (tocilizumab), Kevzara® (sarilumab)]; and

Tepezza® (Teprotumumab-Trbw) (for Louisiana Only) UnitedHealthcare Community Plan Medical Benefit Drug Policy Page 1 of 5 Effective 09/01/2021TBD

- Dosing is in accordance with the United States Food and Drug Administration approved labeling; and
- Authorization will be issued for a maximum of 8 doses per lifetime.

Reauthorization/Continuation of Care Criteria

The clinical benefit of Tepezza has not been demonstrated beyond 8 infusions in phase 3 clinical trials. The continued use of Tepezza beyond 8 infusions in the patient's lifetime is unproven and not medically necessary.

Definitions

Exophthalmos: Proptosis can be confirmed with exophthalmometry, which measures the distance between the lateral angle of the bony orbit and the cornea; normal values are < 20 mm to < 22 mm. An Exophthalmometer is an instrument used for measuring the degree of forward displacement of the eye in exophthalmos. The device allows measurement of the forward distance of the lateral orbital rim to the front of the cornea. CT or MRI is often useful to confirm the diagnosis.

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 federal, state, or contractual requirements 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
J3241	Injection, teprotumumab-trbw, 10 mg

Diagnosis Code	Description
E05.00	Thyrotoxicosis with diffuse goiter without thyrotoxic crisis or storm
E05.01	Thyrotoxicosis with diffuse goiter with thyrotoxic crisis or storm
н05.20	Unspecified exophthalmos
н05.211	Displacement (lateral) of globe, right eye
н05.212	Displacement (lateral) of globe, left eye
н05.213	Displacement (lateral) of globe, bilateral
н05.219	Displacement (lateral) of globe, unspecified eye
н05.221	Edema of right orbit
н05.222	Edema of left orbit
н05.223	Edema of bilateral orbit
Н05.229	Edema of unspecified orbit
н05.231	Hemorrhage of right orbit
н05.232	Hemorrhage of left orbit
н05.233	Hemorrhage of bilateral orbit
н05.239	Hemorrhage of unspecified orbit
н05.241	Constant exophthalmos, right eye
н05.242	Constant exophthalmos, left eye
н05.243	Constant exophthalmos, bilateral
н05.249	Constant exophthalmos, unspecified eye

Tepezza® (Teprotumumab-Trbw) (for Louisiana Only) UnitedHealthcare Community Plan Medical Benefit Drug Policy

Diagnosis Code	Description	
н05.251	Intermittent exophthalmos, right eye	
н05.252	Intermittent exophthalmos, left eye	
Н05.253	Intermittent exophthalmos, bilateral	
Н05.259	Intermittent exophthalmos, unspecified eye	
Н05.261	Pulsating exophthalmos, right eye	
Н05.262	Pulsating exophthalmos, left eye	
Н05.263	Pulsating exophthalmos, bilateral	
Н05.269	Pulsating exophthalmos, unspecified eye	

Background

Teprotumumab is an insulin-like growth factor-1 receptor inhibitor (IGF-1R), a fully human IgG1 monoclonal antibody. The mechanism of action of teprotumumab in patients with thyroid eye disease has not been fully characterized. Teprotumumab binds to IGF-1R and blocks its activation and signaling.

Thyroid eye disease (TED) is also known as thyroid associated orbitopathy (TAO) and Grave's orbitopathy (GO). This disease is an autoimmune inflammatory condition affecting the orbit and ocular adnexa of the eye. TED is associated with distinct clinical features, including upper eyelid retraction, restrictive strabismus, and proptosis. TED can threaten vision through compressive optic neuropathy or corneal decompensation from exposure keratopathy.

The European Group on Graves' Orbitopathy (EUGOGO) defines mild TED disease as the presence of mild lid retraction (<2 mm), mild exophthalmos (<3 mm), mild soft tissue involvement, and corneal exposure that is responsive to topical lubrication. Moderate to severe TAO is defined as lid retraction > 2 mm, exophthalmos > 3 mm, moderate to severe soft tissue involvement, and presence of diplopia. Sight-threatening TAO is defined as presence of direct optic neuropathy or corneal breakdown.

Clinical Evidence

The efficacy and safety of teprotumumab was evaluated in 2 randomized, double-masked, placebo-controlled trials in 171 patients diagnosed with thyroid eye disease. Patients were randomized to either receive teprotumumab (n=84) or placebo (n=87) in a 1:1 ratio. Patients receiving teprotumumab were infused $10 \, \mathrm{mg/kg}$ for the first infusion and $20 \, \mathrm{mg/kg}$ for the remaining 7 infusions every 3 weeks for a total of 8 infusions. The proptosis responder rate at week 24 was defined as the percentage of patients with $\geq 2 \, \mathrm{mm}$ reduction in proptosis in the study eye from baseline, without deterioration in the non-study eye ($\geq 2 \, \mathrm{mm}$ increase) in proptosis. Additional evaluations included signs and symptoms of Thyroid Eye Disease including pain, gaze evoked orbital pain, swelling, eyelid erythema, redness, chemosis, inflammation, clinical activity score and assessments of functional vision and patient appearance.

In study 1, in the intention-to-treat population, 29 of 42 patients who received teprotumumab (69%), as compared with 9 of 45 patients who received placebo (20%), had a response at week 24 (P<0.001). Therapeutic effects were rapid; at week 6, a total of 18 of 42 patients in the teprotumumab group (43%) and 2 of 45 patients in the placebo group (4%) had a response (P<0.001). Differences between the groups increased at subsequent time points. The only drug-related adverse event was hyperglycemia in patients with diabetes; this event was controlled by adjusting medication for diabetes.

In study 2 (n=83), at week 24, the percentage of patients with a proptosis response was higher with teprotumumab than with placebo (83% [34 patients] vs. 10% [4 patients],

Tepezza® (Teprotumumab-Trbw) (for Louisiana Only)
UnitedHealthcare Community Plan Medical Benefit Drug Policy

P<0.001), with a number needed to treat of 1.36. All secondary outcomes were significantly better with teprotumumab than with placebo, including overall response (78% of patients [32] vs. 7% [3]), Clinical Activity Score of 0 or 1 (59% [24] vs. 21% [9]), the mean change in proptosis (-2.82 mm vs. -0.54 mm), diplopia response (68% [19 of 28] vs. 29% [8 of 28]), and the mean change in GO-QOL overall score (13.79 points vs. 4.43 points) (P \leq 0.001 for all). Reductions in extraocular muscle, orbital fat volume, or both were observed in 6 patients in the teprotumumab group who underwent orbital imaging. Most adverse events were mild or moderate in severity; two serious events occurred in the teprotumumab group, of which one (an infusion reaction) led to treatment discontinuation. Among patients with active thyroid eye disease, teprotumumab resulted in better outcomes with respect to proptosis, Clinical Activity Score, diplopia, and quality of life than placebo; serious adverse events were uncommon.

Professional Societies

In 20<u>21</u>16, the European Thyroid Association (ETA) and European Group on Graves' Orbitopathy (EUGOGO) jointly published a guideline for the management of Graves' Orbitopathy/TED. Some of the recommendations are as follows:

- Quit Smoking: Physicians should urge all patients with Graves' hyperthyroidism, irrespective of the presence/absence of GO, to refrain from smoking, if necessary with the help of specialized smoking cessation programs or clinics.
- Thyroid Dysfunction: Euthyroidism should be promptly restored and stably maintained in all patients with GO.
- Steroid Prophylaxis: Oral prednisone/prednisolone prophylaxis, starting with a daily dose of 0.3-0.5 mg prednisone/kg body weight, should be given in radioiodine-treated patients at high risk of progression or de novo development of GO. Lower-dose steroidsprednisone can be used in low-risk patients. Patients with inactive GO can safely receive radioiodine without steroid cover, as long as hypothyroidism is avoided, if other risk factors for GO progression, particularly smoking, are absent.
- First-Line Treatment for Moderate-to-Severe and Active GO: High-dose intravenous glucocorticoids (GC) (methylprednisolone) with or without oral mycophenolate sodium (or mofetil) should be considered as first-line treatment for moderate-to-severe and active GO. Intravenous GC therapy should be performed in experienced centers that can safely manage potentially serious adverse events.
- Second-Line Treatments for Moderate-to-Severe and Active GO: Shared decision-making as an appropriate approach to select a second-line therapy in patients with moderate-to-severe and active GO.

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.

Tepezza (teprotumumab-trbw) is an insulin-like growth factor-1 receptor inhibitor indicated for the treatment of thyroid eye disease.

References

- 1. Tepezza [prescribing information]. Lake Forest, IL: Horizon Therapeutics USA, Inc.; January 2020October 2021.
- 2. Douglas RS, Kahaly GJ, Patel A, et al. Teprotumumab for the Treatment of Active Thyroid Eye Disease. N Engl J Med. 2020 Jan 23;382(4):341-352.
- 3. Smith TJ, Kahaly GJ, Ezra DG, et al. Teprotumumab for Thyroid-Associated Ophthalmopathy. N Engl J Med. 2017 May 4;376(18):1748-1761.
- 4. Hodgson NM and Rajaii F. Current Understanding of the Progression and Management of Thyroid Associated Orbitopathy: A Systematic Review. Ophthalmol Ther. 2019 Dec 10.

5. Bartalena L, Kahaly G, Baldeschi L, Boboridis K, European Group on Graves' Orbitopathy (EUGOGO), et al. The 2016 2021 European Thyroid Association/European Group on Graves' Orbitopathy Clinical Practice Guidelines for the Medical Management of Graves' Orbitopathy. Eur Thyroid Endocrinology J. 202116;5(1):9-26. 185(4), G43-G67Bartalena L, Baldeschi L, Boboridis K, European Group on Graves' Orbitopathy (EUGOGO), et al. The 2016 European Thyroid Association/European Group on Graves' Orbitopathy Guidelines for the Management of Graves' Orbitopathy. Eur Thyroid J. 2016;5(1):9-26.

Policy History/Revision Information

Date	Summary of Changes	
TBD	Added CAS requirement, defined euthroid, hypo- and hyperthyroidism, and	
	updated prescriber requirement in coverage rationale section.	
03/01/2022	Annual review. Updated EUGOGO guideline recommendations and references.	
09/01/2021	Coverage Rationale	
	 Revised coverage criteria for proven and medically necessary treatment of thyroid eye disease: Updated list of examples of biologic immunomodulators not to be used in combination with Tepezza; added Riabni™ Removed specific dosage requirements; refer to the applicable US FDA approved labeling Replaced language indicating "authorization will be issued for no more than 8 doses" with "authorization will be issued for a maximum of 8 doses per lifetime" Supporting Information Archived previous policy version CSLA2021D0099A 	

Instructions for Use

This Medical Benefit Drug 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 Benefit Drug Policy is provided for informational purposes. It does not constitute medical advice.

UnitedHealthcare may also use tools developed by third parties, such as the InterQual® criteria, to assist us in administering health benefits. The UnitedHealthcare Medical Benefit Drug Policies are intended to be used in connection with the independent professional medical judgment of a qualified health care provider and do not constitute the practice of medicine or medical advice.

Archived Policy Versions

Effective Date	Policy Number	Policy Title
02/01/2021 - 08/31/2021	CSLA2021D0089A	Tepezza® (Teprotumumab-Trbw) (for Louisiana Only)