

Federal Employee Program.

Blue Cross Blue Shield Association 750 9th St NW, Suite 900 Washington, D.C. 20001 1-800-624-5060 Fax 1-877-378-4727

# 5.30.084

Section: Prescription Drugs Effective Date: October 1, 2024

Subsection: Endocrine and Metabolic Agents Original Policy Date: December 9, 2022

Subject: Tzield Page: 1 of 4

Last Review Date: September 6, 2024

### **Tzield**

### **Description**

Tzield (teplizumab-mzwv)

### Background

Tzield (teplizumab-mzwv) binds to CD3 (a cell surface antigen present on T lymphocytes) and delays the onset of Stage 3 type 1 diabetes in adults and pediatric patients aged 8 years and older with Stage 2 type 1 diabetes. The mechanism may involve partial agonistic signaling and deactivation of pancreatic beta cell autoreactive T lymphocytes. Tzield leads to an increase in the proportion of regulatory T cells and of exhausted CD8+ T cells in peripheral blood (1).

### **Regulatory Status**

FDA-approved indication: Tzield is a CD3-directed antibody indicated to delay the onset of Stage 3 type 1 diabetes (T1D) in adults and pediatric patients aged 8 years and older with Stage 2 T1D (1).

Select adult and patients and pediatric patients 8 years of age and older for Tzield treatment who have a diagnosis of Stage 2 type 1 diabetes. Stage 2 type 1 diabetes should be confirmed by documenting: (1)

- At least two positive pancreatic islet cell autoantibodies
- Dysglycemia without overt hyperglycemia using an oral glucose tolerance test (if an oral glucose tolerance test is not available, an alternative method for diagnosing dysglycemia without overt hyperglycemia may be appropriate)

Prior to initiating Tzield, a complete blood count and liver enzyme tests should be obtained. Use of Tzield is not recommended in patients with certain laboratory abnormalities (1).

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Cytokine release syndrome (CRS) has been observed in Tzield-treated patients. Patients should be premedicated with antipyretics, antihistamines, and/or antiemetics prior to Tzield treatment. Liver enzymes should be monitored during treatment (1).

All age-appropriate vaccinations should be administered prior to starting Tzield. Live-attenuate vaccines should be administered at least 8 weeks prior to treatment. Inactivated vaccines or mRNA vaccines should be administered at least 2 weeks prior to treatment (1),

The safety and effectiveness of Tzield have not been established in pediatric patients younger than 8 years of age (1).

### Related policies

### **Policy**

This policy statement applies to clinical review performed for pre-service (Prior Approval, Precertification, Advanced Benefit Determination, etc.) and/or post-service claims.

Tzield may be considered **medically necessary** if the conditions indicated below are met.

Tzield may be considered **investigational** for all other indications.

## **Prior-Approval Requirements**

Age 8 years of age or older

### **Diagnosis**

Patient must have the following:

Stage 2 type 1 diabetes (T1D)

#### **AND ALL** of the following:

- 1. Stage 2 T1D has been confirmed by ALL of the following:
  - a. Presence of two or more of the following pancreatic islet cell autoantibodies

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- i. Glutamic acid decarboxylase 65 (GAD) autoantibodies
- ii. Insulin autoantibody (IAA)
- iii. Insulinoma-associated antigen 2 autoantibody (IA-2A)
- iv. Zinc transporter 8 autoantibody (ZnT8A)
- v. Islet cell autoantibody (ICA)
- b. Dysglycemia without overt hyperglycemia using an oral glucose tolerance test (OGTT) OR an alternative method if OGTT is not available
- 2. Used to delay the onset of Stage 3 T1D
- 3. Prescriber agrees to monitor for signs and symptoms of cytokine release syndrome (CRS)
- 4. Prescriber agrees to monitor complete blood count (CBC) and liver enzyme tests
- 5. Prescriber agrees to administer premedications as necessary, such as antipyretics, antihistamines, and antiemetics
- 6. Prescriber agrees that all age-appropriate vaccinations will be administered prior to starting Tzield

## Prior – Approval Renewal Requirements

None

### **Policy Guidelines**

### **Pre - PA Allowance**

None

## **Prior - Approval Limits**

**Duration** 12 months

## Prior - Approval Renewal Limits

None

#### Rationale

#### Summary

Tzield is a CD3-directed antibody indicated to delay the onset of Stage 3 type 1 diabetes (T1D) in adults and pediatric patients aged 8 years and older with Stage 2 T1D. Patients should be

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monitored for signs and symptoms of cytokine release syndrome (CRS) and patients should be premedicated with antipyretics, antihistamines, and/or antiemetics as necessary (1).

Prior authorization is required to ensure the safe, clinically appropriate, and cost-effective use of Tzield while maintaining optimal therapeutic outcomes.

#### References

1. Tzield [prescribing information]. Red Bank, NJ: Provention Bio, Inc.; December 2023.

Policy History	
Date	Action
December 2022	Addition to PA
March 2023	Annual review. Per SME, added requirement "prescriber agrees that all age-appropriate vaccinations will be administered prior to starting Tzield"
September 2023	Annual review
March 2024	Annual review and reference update
September 2024	Annual review
Keywords	

This policy was approved by the FEP® Pharmacy and Medical Policy Committee on September 6, 2024 and is effective on October 1, 2024.