# ALASKA MEDICAID Prior Authorization Criteria

## **Zynteglo®**

### (betibeglogene-autoemcel)

#### FDA INDICATIONS AND USAGE<sup>1</sup>

Zynteglo<sup>®</sup> is an autologous hematopoietic stem cell-based gene therapy indicated for the treatment of adult and pediatric patients with  $\beta$ -thalassemia who require regular red blood cell (RBC) transfusions.

#### APPROVAL CRITERIA 1,2,3

- 1. Patient is 4 years of age or older **AND**;
- 2. Prescribed by or in consultation with a hematologist **AND**;
- 3. Patient has the diagnosis of  $\beta$ -thalassemia confirmed by genetic testing <u>AND</u>;
- 4. Patient weighs a minimum of 6 kg AND;
- 5. Patient is able to provide an adequate number of cells to meet the minimum recommended dose of 5.0x10<sup>6</sup> CD34+ cells/kg AND;
- 6. Patient has obtained a negative test result for hepatitis B virus (HBV), hepatitis C virus (HCV), human immunodeficiency virus (HIV), and human T-lymphotropic virus 1&2 (HTLV1&HTLV2) prior to collection of cells **AND**;
- 7. Patient has a documented history of one of the following
  - a. Documented history of  $\geq 100 \text{mL/kg/year}$  of pRBCs in the immediately preceding two years **OR**
  - b. Documentation of ≥8 transfusions of pRBCs in the immediately preceding two years

#### DENIAL CRITERIA 1

- 1. Failure to meet approval criteria **OR**;
- 2. Patient has previously received gene therapy for treatment of transfusion dependent thalassemia (TDT) **OR**;
- 3. Patient has previously received an allogeneic hematopoietic stem cell transplant (HSCT) for treatment of TDT

#### **CAUTIONS**<sup>1</sup>

- Due to the risk of delayed or failed engraftment, monitor platelet and neutrophil counts following infusion.
- Patients must be monitored for hematologic malignancy at least annually for a minimum of 15 years following infusion.
- Avoid use of anti-retroviral medications or hydroxyurea beginning a minimum of one month, or
  for the expected duration of elimination of all such medications, prior to mobilization until all
  cycles of apheresis are completed.
- Discontinue use of iron chelators seven days prior to initiation of myeloablative conditioning and avoid use until six months after Zynteglo infusion.
- Zynteglo® contains dimethyl sulfoxide (DMSO) which may cause hypersensitivity reactions, including anaphylaxis.

Zynteglo<sup>®</sup> Criteria Version: 1 Original: 10/9/202

Original: 10/9/2024 Accepted: 11/15/2024 Effective: 01/01/2025

### ALASKA MEDICAID Prior Authorization Criteria

#### **DURATION OF APPROVAL**

- Initial Approval: up to 6 months
- Reauthorization will not be approved

#### **OUANTITY LIMIT**

- One infusion per lifetime
- HCPCS: J3393

### **REFERENCES / FOOTNOTES:**

- 1. Zynteglo (betibeglogene autotemcel) [prescribing information]. Sommerville, MA: Bluebird Bio; August 2022
- 2. Locatelli F., Thompson A., Kwiatkowski J., et al. Betibeglogene Autotemcel Gene Therapy for Non- $\beta(0)/\beta(0)$  Genotype  $\beta$ -Thalassemia. N Engl J Med. 2022;386(5):415-427. DOI: 10.1056/NEJMoa2113206.
- 3. Institute for Clinical and Economic Review: Draft Evidence Report Betibeglogene Autotemcel for Beta Thalassemia: Effectiveness and Value . July 19, 2022. Available at: https://icer.org/wp-content/uploads/2023/09/ICER\_Beta-Thalassemia\_Final-Report\_12-Month\_Update.pdf

Zynteglo<sup>®</sup> Criteria Version: 1 Original: 10/9/2024

Original: 10/9/2024 Accepted: 11/15/2024 Effective: 01/01/2025